CASES

SURGERY,

WITH

## REMARKS:

To which is added,

An Account of the Preparation and Effects of the AGARIC of the OAK in stopping of Bleedings, after some of the most capital Operations.

By JOSEPH WARNER, F. R. S. And Surgeon to Guy's Hospital.

The SECOND EDITION.

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## PRESIDENT,

## THE

TREASURER, and GOVERNOURS of Guy's Hospital.

## GENTLEMEN,

S the greatest part of the Cases described in this Collection, have occurr'd to me in the

Hospital over which you prefide; I have taken the Liberty of Addressing them to you, as the only Acknowledgment I can make for the Honour you have done me, in appointing me one of your Surgeons.

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#### DEDICATION.

Should these Papers be found to conduce in any degree to the Advancement of my Profession, or in other Words, to the Benefit of Mankind, I dare say it will be no inconsiderable Pleasure to you, under whose Direction this Charity flourishes, to reslect, that an Hospital is not only the Instrument of Relief to the Distressed who are immediately received there, but also a Means of helping others, by furnishing such Principles and Practice, as may improve the Art of Surgery, and thus render the Benefit more general.

I am, with the greatest Respect,

GENTLEMEN,

can make for the No-

your most obedient, and

. SA to most obliged bumble Servant,

Hatton-Garden, July 18, 1754.

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JOSEPH WARNER.



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CASES



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## SURGERY.

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Of a fractured Scull with a Wound of the Longitudinal Sinus.

T is a Maxim with almost all Writers in Surgery, to speak of the Impropriety and Danger of the Application of the Trepan, upon certain parts of the Cranium, previous to a Description of the Operation. The Parts of the Scull which are look'd upon as improper for the Admission of the Instrument, are the Sutures in general, the Sagittal Suture in particular

ticular, the whole of the Os Occipitis, and the anterior, and inferior Part of the Os Frontis. But notwithstanding it may be right to have a general regard to these Rules; yet there are Instances where they cannot take place but by wholly neglecting the Operation.

THE particular Attachment of the Dura Mater to the Sutures of the Scull in general, and the Course of the Longitudinal Sinus under the Sagittal Suture in particular, are not sufficient Reasons for the absolute forbidding the Application of the Instrument upon these Parts; since Fractures of the Scull are sometimes so circumstanced as absolutely to require it, and the Patient is otherwise incapable of being reliev'd by the Operation.

THE Rule laid down by Mr. Chefelden, in his Observation upon Monsieur Le Dran, seems to be too positive, where he says, "that no "Instrument should ever be applied over the "Longitudinal Sinus, nor ought the Instrument to be introduced between that and "the Scull."

As some reason and excuse for my diffenting from the Opinion of so eminent a Man, I am induc'd to offer the following Case as a Proof of its Necessity under certain

Cir-

Circumstances, and of the little Danger there seems to attend even a Wound of the Longitudinal Sinus. An Instance of which Mr. Chefelden has given us himself, where he says, "the Longitudinal Sinus, or the Vessels that empty into it were wounded by a Surgeon," which he says, "he stopt by dry Lint; and had the good luck to save his Patient."

R. J. aged 13, on the 16th of November, 1749, was struck with a pointed piece of Iron, upon the upper and middle Part of the Head, so immediately upon the Sagittal Suture as to force a bit of both Parietal Bones into the Longitudinal Sinus. Immediately upon receiving the Blow, he fell down, and became fenfeless, but in a few Minutes afterwards recover'd, and continued well for fix Days. At the End of which Time, he was seiz'd with Epileptic Fits, which were very frequent, accompany'd with Vomitings, and a Palfy of the left Side; the Sight of his left Eye was perfect, but his right Eye was fo affected as to make all fingle Objects appear double. These Symptoms continued till the 27th of December following, when he was put under my care. Upon examination, I found daidw B 2 the

the Circumstances as related above, and immediately afterwards proceeded to the Operation. Upon taking off the Scalp, there iffued a continued Stream of Blood through the Hole made in the Bone; I applied the Trepan fo as to include the Hole made through the Bone, and the Sagittal Suture, within the Circle of the Instrument. Upon taking out the circular piece of Bone, there appear'd a Wound which was made into the Sinus by the bits of Bone that were then sticking in it, which I enlarged with a Lancet, in order to extract them with less Violence. Upon taking them out, the Discharge of Blood was increased; but upon the Application of dry Lint only, the Hamorrhage stopt. Immediately after the Operation, he fainted, but foon recovered; in half an Hour's time he express'd an agreeable Sensation on his left Side, and by the next Morning had so well recover'd the Use of his Limbs as to be able to move them freely to any part of the Bed. In fix Days after the Operation, he perfectly recover'd the Sight of his right Eye; from this time he continued to mend till the 10th of January following, when he accidentally receiv'd a Blow upon his Head. Soon after which.

which, he complain'd of a Numbness in his left Arm, and a return of the Dimness in his right Eye. Upon taking off the Dreffings, there appear'd some clots of Blood upon them, and his Head was confiderably disorder'd till the 26th of the same Month, when he grew tolerably well again. Upon observing a Fungus to have risen a considerable Height, above the Surface of the Skull, which would not fubfide with proper Applications affifted by Pressure, I pared it off: This gave him very little Pain, but for a few Minutes afterwards he complain'd of a Numbness all over him, which foon went off, and he continued well till February the 2d, when he complain'd of a Sickness in his Stomach, and of acute Pains in both his Elbows. February the 3d, as I was dreffing him, he was fuddenly attack'd with a Shivering, and the Dura Mater appearing particularly prominent, I divided it, and discover'd a piece of Bone sticking in the Brain, which I endeavour'd to extract, but meeting with confiderable refistance, was obliged to enlarge the Wound, which admitted of its being more eafily removed.

A FEW Days after this, he complain'd of considerable Pain on the right Side, about

B 3

two Inches below the old Wound, which increased upon Pressure: Upon Shaving the Scalp, there appear'd a small Discoloration which induced me to repeat the Operation upon this Part. Upon taking out the Bone, the Dura Mater appear'd considerably elevated and discolor'd: For which reason I divided the Membrane, and gave Issue to a large quantity of Matter, which was confined underneath it. On the next Day he was free-from Pain, but on the Day following his Pulse grew bad, and so continued till the Evening, when he expired.

U P O N opening his Head, there appear'd a confiderable Quantity of Matter lodged in the Substance of the Brain, particularly in the

right Hemisphere.

Query. Could the want of Success in this Operation be attributed to the Wound of the Sinus Longitudinalis; and is it not reasonable to hope that the Operation might have been successful, if no extraneous Body had been lodged in the Substance of the Brain?

THE Wound of the Longitudinal Sinus did not probably produce any dangerous Symptoms, because

because it never bled again after being once stopp'd, which was easily effected; and if we credit the fourth Observation of Marchetti, there does not seem to be so great a Danger attending a Wound of this Sinus as is generally apprehended.

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#### CASE II.

Of a fractured Scull, where the Operation was fuccessfully perform'd upon the Lambdoidal Suture.

Blow on the posterior part of the Head upon the Lambdoidal Suture, at about an Inch and a half distance from its upper Angle, which lacerated the Scalp, and fractured the Scull. Upon examining the Wound, and finding it thus circumstanced, he was immediately scalp'd, which gave me an opportunity of discovering the Nature and Extent of the Injury done to the Bone. The Fracture extended to about three Inches in length obliquely upwards upon the left Parietal Bone; and one of the Osa Triquetra appear'd via B 4

fibly depress'd, and beat inward upon the Dura Mater. Upon receiving the Blow, the Boy fell down, and became fenfeless, which was foon fucceeded by Vomitings, and a Discharge of Blood from the Nose. In an Hour after the Accident, he was brought into the Hofpital, and the Operation was perform'd fo immediately upon the Lambdoidal Suture, as to include the depress'd Bone, which could not otherwise have been remov'd. taking out the piece of Bone, the Dura Mater appear'd prominent, and tense; I divided it with a Lancet, and gave iffue to a Quantity of Serum that was confined underneath it. From the great Extent of the Fracture, I judged it necessary to apply the Trepan a fecond time, which was accordingly done upon the Parietal Bone, at about an Inch and half distance from the former Place. The Dura Mater appear'd here in its natural State; for which reason I thought it unnecessary to divide it. The next Morning after the Operation, the Patient was blooded on account of a fullness in his Pulse, and of the Stupor which still remain'd in some degree; in the Evening an emollient Clyster was administer'd, from which Treatment he receiv'd immediate relief, and continued

continued to mend from this time without any Relapse till he perfectly recover'd, which was in nine Weeks after the Operation.

#### REMARK.

In this Case, the Attachment of the Dura Mater to the Lambdoidal Suture appear'd very inconfiderable; and feeing the Nature of the Accident was fuch, as to render the Application of the Instrument upon that Part, abfolutely necessary to the taking off the Pressure from the subjacent Membranes and Brain, which they labour'd under from the depress'd Bone; I'm induced to think there could be no doubt of the Propriety of Operating upon The Course of the Longitudinal, the Suture. and Lateral Sinuses, were here quite out of the Question. It has been observed by Writers, that when the Head receives so violent a Blow as to Fracture the Scull, that the natural Attachment of the Dura Mater to the internal Part of the Cranium, is broken off, and confequently there can be very little danger of injuring the fubjacent Membrane with the Teeth of the Saw. Again it is agreed, under some circumstances, to be absolutely necessary to divide the Dura Mater, to give iffue to any

extravasated Fluid that is confined underneath, it, which is often practised with success. I am induced therefore to think, it has been a Rule too generally laid down by Authors, to forbid the Application of the Instrument upon these Parts; since by following it too strictly, the Trepan must necessarily be omitted in Cases that are not otherwise to be relieved; in consequence of which, the Patient is deprived of such benefit, as might probably accrue from the Operation.

## CEAESTANCES DE PARAMENT

#### CASE III.

Of a Man where the Operation of the Trepan bad been successfully perform'd upon the Os Occipitis.

IN the two preceding Cases, I have given instances where it was absolutely necessary to apply the Trepan upon the Sagittal and Lambdoidal Sutures. In the following it will appear, that the Trepan may be likewise safely apply'd upon the Os Occipitis, contrary to the general Opinion of Authors.

On the 21st of February, 1753, I gave a Lecture upon the Brain of a Man who was executed at Tyburn. Upon fawing through the Scull (which I have now by me) I observed that he had formerly been trepan'd upon the Occipital Bone. The Instrument appeared to have been apply'd upon the Os Occipitis, at least an Inch distant from the upper Angle of the Lambdoidal Suture, and very near to the left Side of the Sulcus, which is form'd in that Bone for the Reception of the posterior

part of the Longitudinal Sinus.

THIS Operation must have been perform'd a confiderable time before his Execution, fince there was a firm Cicatrix of the Integuments. There was not the least Appearance of a Callus which had shot from the Circumference of the Hole made into the Bone by the circular Saw. The Cure feem'd to be compleated merely by a strict Adhesion of the Dura Mater, to the Circumference of the Opening made through the Scull, and by an elongation of the Integuments which compose the Scalp. The principal Reasons given by Authors for the Impropriety of the Application of the Trepan upon this Bone, are these: The Unevenness

of its external, and internal Surfaces, and the Course of the Longitudinal, and Lateral Sinuses.

But the first Objection can be of no great weight; and as the chief Sinuses possess only the upper and middle lateral Parts of the Os Occipitis, the Operation may, contrary to the general Opinion, be safely perform'd upon this Bone, on either side the Lambdoidal Suture, as low down as the first occipital Ridge, corresponding to which, on the Inside, are the lateral Sinuses.

From what has been already observed in the preceding Cases, I think it may be fairly concluded, that there is no Part of the Scull upon which the Operation may not be performed in Cases of Emergency, except, at the anterior inferior Angles of the parietal Bones, on the internal Part of which the Arteria dura Matris runs, and on the anterior and inferior Part of the Os Frontis, where its Tables are well enough known to be at a considerable Distance from each other in Adults, and by this means to form a Cavity distinguish'd by the Name of the Sinus Frontalis.

CASE

the Iris. The Pupil appeared to extend be-

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A Short Account of Some extraordinary Facts attending the Operation of Couching, &c.

fuddenly attacked with a Dimness in both his Eyes, which happened without any previous Accident or Pain in the Head; the Disorder continued for three Years in much the same State, when it began to increase, and so continued till he became incapable of distinguishing Objects. He remained under these Circumstances till March, 1748, when he came to London, and put himself under my Care.

THE Disease was a Cataract, or Opakeness in each of the Chrystalline Humours; that in the right Eye appeared to adhere to the inferior Part of the Iris, but without any defect or Alteration in the Shape of the Pupil. He was capable of distinguishing Light, and Colours. In the left Eye, the Chrystalline Humour was adherent to the greatest Part of the

the Iris. The Pupil appeared to extend beneath the Cataract, and to have changed its Shape, from a Circle, to an oblong; through the lower Part of which, a small Share of Light was admitted to the Bottom of the Eye.

FROM these Circumstances, I judged it improper to meddle with the lest Eye, and at the same time considered the Event of the Operation as precarious in the Right. However, I undertook it upon a probability of Success, and couched the right Eye on the

third of April following.

Upon endeavouring to depress the Catarque, I perceived it to make a considerable Resistance to the Instrument, which was occasioned by its adhesion to the inferior Part of the Iris: So that I was obliged to direct my Needle underneath the Cataract, and lift it up, before I could disengage it from the Iris; which I effected with some difficulty, and at length depressed it.

HE suffered very little Pain from the Operation. In six Days after, I examined the Eye, when the Cataract appeared to have resumed

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its former Situation.

On the third of May following, I couched him a second Time; the Catarast subsided much more easily than before; this Operation was attended with as little Pain as the preceding: Upon examining the Eye a Week after, I perceived the Catarast to have risen a second Time, but so impersectly, as to cover the lower Half of the Pupil only. The upper Half of it appeared clear, and he could distinguish Letters through it, by the help of a Convex-glass.

I was in hopes from this Appearance, that the Cataract might in time have subsided (as I have frequently known it do under the like Circumstances) without any farther Operation. But on account of the little Pain which the Patient had suffered from these Operations, he infifted upon a Third, which I performed upon the 23d of the same Month, and the Chryftaline was eafily depressed. But such was the Disposition of the Cataract, that it rose up a third Time, but in fo shaking and wasted a Condition, as to promife a speedy Disappearance. However, the Patient remaining diffatisfied, and unwilling to return Home upon a bare Probability of its wasting away; I was prevailed upon to perform the Operation a fourth Time.

THE

THE Cataract immediately subsided upon the slightest Touch of the Needle, and did not appear again.

THE Patient was capable of reading, and writing, with the Assistance of a Convex-glass, in a Fortnight after this Operation; and now sees well enough to follow his Profession of Surgery and Pharmacy. It is remarkable that there was hardly any Inslammation or Pain; in consequence of either of these Operations.

WHEN he first began to look at a Candle, or any other single Object, it appeared to him multiplied; and when he first read, he conceived of Letters as remaining imprinted upon the Bottom of the Eye for some Hours afterwards, but by a little use these Phanomena were quite removed.

## E CU SIN I REMARK. I POSSOCIA

FROM this Example it appears, how difficult it is to remove the Cataract effectually, when complicated with an adhesion of it to the Iris: and again, how warrantable it may be to repeat the Operation with a Probability of Success, in such Cases as are attended with the like favourable Circumstances.

IF the Chrystalline had been totally removed by Extraction, these Returns of the Disease could not have happened. But I am inclined to think, that if it had been attempted by opening the Cornea, the Operation would not probably have terminated so happily; since the vitreous Humour must in all likelihood have been wholly, or in a great part discharged, in endeavouring at a Removal of the Chrystalline.

INSTANCES of which I have known to occur, attended with fuch circumstances, as to render a second Operation impracticable. So that however successful this method of Operating may have proved in Cataracts, that are quite free from adhesion; yet I think the Operation is not likely to be attended with equal benefit, when they are otherwise circumstanced.

MONSIEUR Daviel's own Accounts of the Success attending his method of opening the Cornea, and extracting the Chrystalline, are so very extraordinary, as almost to exceed probability; and I cannot help considering them as partial, when I reslect upon the Accounts given us of the very different Success attending this Operation, when performed by

others in nearly the same Manner, as well as

from my own Experience.

FROM the refult of those Experiments, which were made upon nineteen Eyes, by Mr. Morand, M. Poyet, and by M. De la Faye, of which there is a particular Account given in the Memoirs of the Royal Academy of Surgery at Paris, printed in the Year 1753, it appears that the Benefit attending both methods of Operating is so nearly equal, as to make it uncertain which of the two is attended with the greatest Success: So that, in all probability, both methods of Operating may be found to have their Advantages in particular Cases.

Since I have taken the Liberty of making fome Remarks upon M. Daviel's own Account, of the great Success attending his method of the Removal of Cataracts, by extracting the Chrystalline Humours; perhaps it will not be unacceptable, should I make such an Abstract from his own Memoir, as immediately relates to this particular, and the Manner of his performing these Operations; and upon presumption of meeting with this Indulgence, I have added a second Abstract relating to the Event of those several Operations which were performed by M. Morand, M. Poyet, and M. De la Faye.

A short Abstract from the Memoirs of the Royal Academy of Surgery at Paris, of an Account of the Operations of the Cataract, for the Extraction of the Chrystalline, done by Monsieur Poyet, before the Commissaries of the Academy, as drawn up by Messieurs Morand, and Verdier.

THE Academy has observed with Pleasure, the Eagerness which has been shewn to make the Operation for the Cataract more simple and perfect, by extracting the Chrystalline, which has been successfully practised by M. Daviel, who has himself given an Account of this method, Page 337. See Acad. Royal of Surg. at Paris, printed Anno. 1753. Several Persons have invented an Instrument, and almost at the same Time, with which the Cornea might be divided in such a Manner as to make one Instrument only necessary.

MONSIEUR Poyet, formerly Surgeon of the Hôtel Dieu, and lately appointed Surgeon of La Charité, hath presented one of his own Invention. A little Time afterwards, Mr. Sharp of London, sent to M. Morand the Design of another Instrument, which he had exhibited to the Royal Society.

C 2 Monsieur

Monsieur Poyet has already made some Experiments upon dead bodies with his Instrument, before the Commissaries nam'd by the Academy for that Purpose; they report that it appear'd to them to have succeeded particularly well. M. Morand, from that time, engaged to ask Leave of the Governors of the Hospital of Invalids, for M. Poyet and M. La Faye, to operate, which they consented to, out of regard to the great Zeal, which the Surgeons of Paris shew for their Art.

Monsieur Morand affembled nineteen People diseas'd with proper Cataracts, who were prepar'd for the Operation; and on June the 11th, 1753, they were all operated upon, one after another. Six of the Operations were perform'd by M. Morand, Six by M. La Faye, and Seven by M. Poyet, of which take the following Account. M. Morand endeavour'd to depress the Cataract of M. Vallot, an Officer, aged 65 Years, but from fome unaccountable Accident it escaped from its Bed, upon being touch'd with the Needle, and was ready to pass into the anterior Chamber of the Eye. Upon which, M. Morand recommended the Patient to M. Poyet, as a favourable Opportunity of trying his Operation, which M. Poyet accepted AGENT HONELEDR

accepted of. When the Cornea was sufficiently divided, the Chrystalline immediately follow'd without any pressure at all, and no Accident happened. The Cicatrix of the Cornea appear'd firm on the eighth Day. The Patient was visited by the Commissaries on July 11, and 25, when he declar'd he could not distinguish Objects. Upon Examination, it was found he had a Gutta Serena; and besides this, a second Catarast was form'd by a thickening of the Membrane which invests the Bed of the vitreous Humour.

John Baptist Roux, aged 65, was operated upon next by M. Poyet; after the Cornea was divided, the Chrystalline fell out upon the Eye being gently press'd; the Patient had only a slight Inflammation of the Conjunctiva; he was visited by the Commissaries on July the 11th, and could distinguish Objects. He was visited again on July 25, and could only see Day-light; his Eye was attack'd with an Inflammation; upon the whole, he sees but little.

Peter Mercier, aged 64, was next operated upon, by M. Poyet, he had no bad Symptoms after the Operation: he fees very well. The Pupil has chang'd its Figure, and is not quite round.

C 3

Francis

Francis Riviere, aged 56, was operated upon next, the Cornea of his right Eye was opened by M. Poyet; the Cornea of his left was opened by M. La Faye; he has had no accident in the right, but has suffered greatly in the left Eye; he can see Light, but cannot distinguish Objects.

Julien Le Gendre, aged 70, had his Cornea opened by M. Poyet; he has had no accident; the Pupil has chang'd its shape, and he can

distinguish Colours.

Claude Boucher, aged 72, had both his Eyes very much sunk, and his Eye-lids a little eleft: The Section of the Cornea of the right Eye was a little too small, by which means M. Poyet was oblig'd to press the Eye a little more than usual, to squeeze out the Chrystalline. A considerable Instammation succeeded this Operation, which was followed with a Suppuration of the whole Globe of the Eye, and the Patient does not see at all. The left Eye had no Accident; the Patient sees indifferently well.

Such was the State of M. Poyet's Patients on July the 25th, which was fix Weeks after the Operations.

It now remains for us to tell his Opinion upon some Points, and compare his Operations with the others. M. Poyet thinks the Instrument for cutting the Cornea, ought to be straight like his own; he pretends that the Iris is by that means less liable to be wounded, and that the Section of the Cornea made with an Instrument a little convex, becomes more difficult.

Mr. Sharp's Instrument is also straight, M. La Faye's Instrument is a little curv'd on the fore part of its Blade. But we have not been able to distinguish any difference in their advantages; they each of them had one Patient whose Iris was a little wounded.

Monsteur Poyet attributes the Inflammation which befel the Eye of one of his Patients, to the Conjunctiva being wounded; but we don't think this a sufficient Reason to occount for it. However, we agree with M. Poyet, that the Cornea should be divided two thirds of its Circumference to facilitate the Exit of the Chrystalline, if it presents itself readily; or to be able by this means to cut with ease the Capsula of the Chrystalline, if it adheres too much to its Bed. We don't think that the Imposthumations which happened to the Eye, operated

operated upon by M. La Faye, and to that operated upon by M. Poyet, are to be attributed to their Instruments. These Accidents have happened to M. Daviel; nor do we think these Accidents peculiar to the Operation of the Cataract by extraction of the Chrystalline, since we have seen them happen in the common method of Couching.

In fine, we will give a short Account of the Success of these nineteen Operations which have been successively perform'd,

Or the fix Cataracts couch'd by M. Morand, in the common Method, three have succeeded, and the Patients see very well; three of the Cataracts are risen again.

OF the Six which M. La Faye has operated upon by extracting the Cataract, there are two that fee well, two who fee not fo well, and two who do not fee at all.

Or the Seven operated upon by M. Poyet, two of them fee well, two not so well, one sees Day-light, two do not see at all.

This is a true Account of the Proceedings and Success of the Operations; but we are not answerable for any Accidents which may have happened since our last Examination, as they would be foreign to the Operation.

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Abstract

Abstract from the Memoirs of the Royal Academy of Surgery at Paris, published Anno. 1753.

In Page 338, M. Daviel distinguishes Cataracts into two Species only; one he calls the true Cataract, or that of a good kind; the other he calls the false Cataract, or that of a bad kind, when it is accompanied with other Diseases. He says, it is not the Colour of the Cataract which determines the good Species, but other Circumstances, such as the Motion of the Pupil of the Eye, and the Ability of distinguishing Day from Night.

lity of distinguishing Day from Night.

Monsieur Daviel says, he receiv'd the first

Monsieur Daviel lays, he receiv'd the first hint of this Operation from an Accident, which happened to him in couching the common way; the Chrystalline was broke into Pieces, and escap'd into the anterior Chamber of the Eye. This determin'd him to open the Cornea transparens to empty the anterior Chamber, after which, the Pupil appear'd clear, and he could distinguish Objects; but in ten Days after the Operation, there ensued an Inflammation and suppuration of the Eye, which he attributed entirely to the Violence done to the vitreous Humour, and to the inner

Mem-

Membranes of the Eye in his first Attempt; this made him determine not to proceed for the future in the same Method, but to begin with opening the Cornea, and afterwards to introduce a small Spatula into the anterior Chamber of the Eye, and to dislodge the Chrystalline from its Bed; which he did upon a Woman, and she was cur'd in fifteen Days.

THE event of this Operation induc'd him to try it upon four more, which he did. with Success. But (fays he) there appear'd to me to be still many things wanting to perfeet this method. After these four, he tried the fame Method upon feveral others, but not with equal Benefit. From this time he thought proper to try a new Method of Operating. The preceding Operations had been perform'd by three Instruments, viz. a curved Needle, a Pair of crooked Sciffars, and a fmall Spatula. But he now undertook the Operation with two Instruments only, one like a small Bistory, with which he opened the Sclerotica: Afterwards he introduced a fmall Spatula through the same opening into the Eye, betwixt the posterior part of the Iris, and the Chrystalline Humour, and by this means eafily deprefs'd the Cataract.

A GREAT many Operations of this kind being attended with Success, as many eminent Surgeons (he fays) can testify, he thought for some time this method preferable to any other. He put in practice all the different Methods of Operating, and with all the different Instruments: But he found upon the whole, that when the vitreous Humour, and the feveral Membranes that are fituated behind the Iris, are disturb'd by the Needle, there very often succeeded Inflammations and Suppurations of the Eye, and fometimes an Atrophy of the Globe, with other Accidents. On which account he at length dropp'd this method, and determin'd for the future to operate by opening the Cornea, as he had done at first.

In the following Manner, he fays, he has performed two hundred and fix Operations, out of which, one hundred and eighty two have succeeded.

It is of no Consequence (he observes) of what kind the Cataracts are, whether soft, hard, of long standing, or of different Colours. The Operation will succeed equally well, if the Eyes be sound in other respects, because the principal Intention of his Operation is the

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Extraction of the Chrystalline, which is easily effected by these means. The Instruments he employs are a curv'd Needle with a sharp Point, and Sides like a Lancet; a blunt pointed curv'd Needle, with sharp Sides; a pair of crooked convex Sciffars; a small Spatula of Gold, Silver, or Steel a little curv'd, to lift up the Cornea with; another small pointed Needle, which cuts on both fides to open the Capfula of the Chrystalline Humour; a fmall golden, filver, or fteel Curette to facilitate the Issue of the Chrystalline, or to draw out the remaining Fragments when they Rick to the Edge of the Pupil; and besides these, a small pair of Pincers to take out any pieces of the Capfula of the Chrystalline. The Method of his operating is this; he places the Patient opposite to him, upon a Seat of a convenient height, and covering one Eye with a Bandage, the upper Eye-lid of the other is held up by an Affistant plac'd behind the Pal tient, and the under Eye-lid is held down by the Operator, who places his Elbow upon his Knee by way of support to his Arm; then he plunges the first Instrument like a Lancet into the Bottom of the Cornea, near the Sclerotica, and thrusts it a little above the Pupil, Extaking

taking care not to wound the Iris; this being done, he withdraws this Instrument; then introduces the blunt pointed Needle, with which he enlarges the Incision by cutting on each fide still more; as the Cornea is now grown flaccid, he makes use of a pair of curved convex Scissars, with which he enlarges the Wound on each fide still more, till the Cornea is divided near three parts round; then he introduces a small Spatula into the Wound, with which he lifts up the Cornea, and afterwards proceeds to wound the Capfula of the Chrystalline with a sharp small couching Needle. Sometimes, fays he, this Membrane must be cut all round in order to bring it intirely out, if it is thickened and wrinkled, for fear it should obstruct the Pupil; when it is fo cut, it may be extracted with a pair of Pincers: After having cut the Capfula in this manner, the Spatula may be introduc'd betwixt the Iris and Chrystalline to detach it from its Bed, and facilitate its Exit.

THE Cornea is then to be put in its proper Situation again, and at the same time the inferior part of the Globe of the Eye must be gently press'd, by which means the Chrystalline may be squeez'd out without breaking the posterior

terior part of the Capfula, which keeps the vitreous Humour in its proper Place. M. Daviel says, he thinks there are no Inconveniencies attending this Method of operating, but what may with care be avoided; and it has this great Advantage over others, that the Cataract can never rise again.

The Manner of performing the Operation of extracting the Cataract with one Instrument only, by Mr. Warner.

THE Manner in which I perform the

Operation is this.

THE Patient being seated in a Chair of a convenient height, with a low Back, I seat myself exactly opposite to him in another Chair of an equal height; this being done, an Assistant stands behind the Patient, who places his right Hand under the Chin, after having sirst cover'd the right Eye with an Handkerchief, and pulling his Head back against his Breast, he directs his Face upwards to prevent the Discharge of the vitreous Humour, and to keep him steady. The same Assistant lists up the superior Eye-lid with the fore and middle Finger of his left Hand;

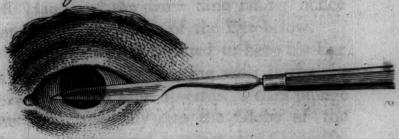




Fig. 1. The Cye with the Instrument passed thro y formea. Fig. 2. The Cye with the Hound on y inferior part of y formea. Fig. 3. The Cataract, or diseased Crystalline Humour.

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ber of the Eye, the Cornea becomes a little elevated, and the Exit of the Cataract is on this account facilitated.

I LOOK upon the Division of the Capsula of the Cataract to be of great consequence in many Instances, since this Membrane becomes sometimes so tough and thickened, as to make a very considerable Resistance to the Pressure; in which case, a great part, or the whole of the vitreous Humour is discharg'd, and the Cataract sometimes remains behind, which will not admit of a second Attempt to an Operation.

But it sometimes happens, that the Cataract immediately follows the Division of the Cornea, without making any external Pressure upon the Globe, owing probably to the involuntary Contraction of the Muscles of the Globe, which draw the Eye inwards, and compress it on every side.

This Operation cannot be properly perform'd, but upon fuch as have the power of keeping their Eyes from rolling about.

THE Speculum Oculi must never be made use of in this Operation, since the Compression from the Instrument has been found to be so great, as to squeeze out the whole of

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the vitreous Humour, even before the Operator could make the Wound sufficiently large through the Cornea, for the Expulsion of the Chrystalline Humour.

I'r very often happens that a part of the vitreous Humour is discharg'd in the most successful Operation; but I have never known it happen otherwise in such Cases than to be soon restor'd, and the Eye to resume its natural Figure, by being replenish'd either with a fresh Supply of the vitreous or aqueous Humour, or both.

THE Inflammation succeeding this Operation is generally very considerable; but neither that, nor the Operation, seems to be very painful. It is generally several Weeks after the Operation, before the Inflammation of the Eye is dispers'd.

DURING this State, it should be treated with emollient Fomentations, and cooling Ointments, and the Patient's Body kept open.

I r the Cornea of the right Eye is to be divided, the Operator places himself in the same Situation as has been already directed, supposing he has a power of using his left Hand to Advantage; but if he has not a sufficient command of his left Hand, he must stand be-

hind.

hind the Patient, and, after having lifted up the superior Eye-lid, use his right Hand; his Affistant at the same time standing before the Patient, and holding down the under Eye-lid with the fame precautions already given. ash and a whall at moneth apost?

WHEN the Cornea is divided, and the Capfula of the Cataract wounded, the Affiftant must press gently upon the inferior part of the Globe of the Eye, and fqueeze out

the Cataract. Since may said to whome there is

THE Knife to be made use of in this case, is exactly like that which is us'd in the Performance of the Operation of cutting the Iris, only that it must be about three times as broad, and about twice as thick.

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Of an extraordinary Tumour in the right Orbit of the Eve.

D S. aged 42, had a large schirrous Tumour formed in the superior part of the Orbit, which had been growing feven Years, and was now become fo large as to push the Globe balle

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of the Eye confiderably downwards, and out of its Socket. It appeared at first in the shape of a small moveable Swelling, which took its rise under the upper Eye-lid.

THE Tumour increased gradually, and without Pain for the four first Years. For the three last Years it became very troublesome, and full of Pain, which extended to the whole of that side of the Head.

THE Sight of the Eye became impaired in proportion to the Increase of the Tumour.

On the 30th of March 1749, he was admitted in the Hospital, and in ten Days afterwards it was cut out.

THE Tumour was found to extend itself from the outer Corner of the Eye, to within a very little of the inner Corner, and quite to the Bottom of the Socket. The Operation was difficult, and attended with confiderable Pain, which continued for several Days, soon after which he became perfectly easy. During the Cure, there was a large Discharge from the Wound; in about eight Weeks the Wound was healed, and he continued perfectly easy. His Sight was much the same as before the Operation.

#### REMARK.

When the Eye is thrust out of the Orbit by a subjacent Tumour, the Tumour frequently takes its rise from the Brain itself; which Circumstance renders the Operation impracticable. Sometimes the Tumour, though it arises within the Orbit, is of a cancerous nature, and affecting all the Contents of the Orbit, renders the absolute Removal of it impossible. These Circumstances have brought the Operation into Disrepute. But there may be a Species of schirrhous Tumour within the Orbit, where the Operation may be attended with Success.

Notwithstanding, that after the Cure in the preceding Instance, the Eye remained in the Position it was before the Operation, and with the same Impersection of Sight (from probably the Compression which the optic Nerve had sustained) yet the Patient being free from Pain, and in every other respect persectly well, was sufficiently recompensed for the Pain of the Operation.

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## CASE VI.

Of an uncommon Tumour upon the Roof of the Mouth.

A B. aged 40, had a Tumour formed upon the Roof of his Mouth, which at length had arrived to fo great a Size, as to prevent his feeding upon any thing but Liquids. Tumour had been growing about feven Years, and at length possessed the whole Roof of the Mouth. He came to London, in June 1747. and was admitted into the Hospital under my Care. In confideration of the foregoing Circumstances, and the Improbability of procuring Relief by any other methods, it was recommended to him to have it cut out; but at the same time the Operation was judged hazardous from the Hamorrhage that might probably arise from it, and the Difficulty of stopping it, as had happened sometime ago in a fimilar Case; but as no other Methods could be thought on for his Relief, I undertook the Operation, and performed it in the following Manner.

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THE Patient being properly feated, and fecured, a piece of Wood was placed betwixt the Teeth on the left fide of his Mouth; and a curved Knife, fuch as Gardeners make use of in pruning Trees, was conveyed to the posterior part of the Tumour, with which I effectually separated the Tumour from its Basis. The Hamorrhage that ensued upon the Operation was fo triffing, as to require no pains in stopping it. But in a few Hours afterwards, a considerable Artery burst out, which bled freely, and could not be restrained by Presfure, or other gentle means. Seeing this, and confidering the Impossibility of using the Needle and Ligature to advantage, I had recourse to the actual Cautery, which answered the End, and the Patient was perfectly cured in three Weeks, without farther trouble.

U PON opening the Tumour it was found to confift of a firm cartilaginous Substance mixed

with long boney Particles.

#### REMARK.

THE actual Cautery is hardly ever made use of in England by Surgeons of the present Age, to stop bleedings. The crooked Needle and Ligature are for many Reasons justly preferr'd to it. But nevertheless, there are some Instances where the actual Cautery may be found necessary, as the preceding Case undoubtedly proved.

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#### CASE VII.

Of an encysted Tumour situated upon the forepart of the Neck, successfully extirpated,

A. B. a Girl of about 14 years of Age, had a Tumour formed upon the Forepart of her Neck, immediately beneath, and on the left fide of the thyroid Cartilage; the Tumour had been growing about four Years, and was at length become so troublesome from its Situation and Size, as to occasion a Difficulty in breathing, and a total Inability of swallowing any thing but Liquids. It was of the encysted kind, and composed of a Quantity of Fluid. Its Situation was betwixt the Aspera arteria and the Aspera south, and the Patient did well in a few Weeks. But on account of its deep Situation, only a part of the

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Cyst was dissected out, the rest of it came away in a few Days afterwards with the Dressings. The Patient, since the Operation, has been free from any Inconvenience in breathing, or swallowing; and is otherwise perfectly well.

#### REMARK.

THERE is a Species of Tumour sometimes formed betwixt the Aspera arteria and the Esophagus, which from its schirrous nature, extent of its Basis, and deep Situation, renders all Attempts to Extirpation unadviseable. An Instance of which, Tulpius has given us in the 44th Chapter of his first Book of Observations.

A CASE similar to that, I was consulted about some time ago, in a Man 55 years of age. The Tumour increased so fast, as to destroy him in a few Months. But where the Tumour is differently circumstanced, both as to its Nature and Contents, the Operation may be adviseable, as the preceding Instance undoubtedly proves. The Success of which sufficiently warranted the Undertaking.

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### CASE VIII.

Of a Steatoma, possessing the greatest part of the Neck on one Side, successfully extirpated.

C. G. aged 45, had a large Tumour on the right Side of her Neck, which had been growing for twenty Years. It was much larger at its Basis, than at any other Part, and extended from the right mastoid Process, to the Clavicle on the same Side; and from all the Vertebræ of the Neck to the mastoid Muscle, under which a Part of it was fituated. The Tumour was not attended with Pain, but had of late become so insupportable from its fize, as to render her incapable of Service. Under these Circumstances, she applied to me. I saw no Objection to the Operation, and accordingly advised it, which was complied with. There was no extraordinary Circumstance or Difficulty attending the Operation, but that it required fome care and nicety in Diffecting out that part of the Tumour which lay under the maftoid Muscle upon the internal

ternal jugular Vein, and carotid Artery. There was but one Vessel which required tying, (a Circumstance very uncommon in a Swelling of this Size, which weighed near four pounds.)

In the Operation, all that part of the Trapezius Muscle covering the back Part of the Neck. was laid bare. The whole of the Platysma Myoides was taken away with the Tumour, and the Coracobyoidæus Muscle appeared in view. After the Tumour was removed, and the Hamorrhage stopp'd, I passed the Needle and Ligature twice through the Integuments, in a transverse Direction, to prevent their Retraction; by which means I hoped the Cure might be haftened. This seemed to have the defired Effect, and the Wound was perfectly healed in fix Weeks. White the ton and the training the

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In all steatomatous Tumours, it is absolutely necessary to remove the whole in the Operation, if possible; and not trust to the Effects of Dreflings, for the Removal of any part that is left behind.

I HAVE known an Instance, where, by trusting to this Method, it has been found necessary to repeat the Operation, which feldom fails to bring a Reflection upon the Surgeon.

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I ONCE knew an Instance of this Kind in the Case of a Steatoma, which grew in the inner Corner of the Eye. Its Basis was situated upon the Lachrymal Sac; which, it was apprehended, there was a Danger of wounding with the Knise. On this Account, a very small Share of the Tumour was left behind. This in a few Months afterwards, arrived to the Size of the former Swelling, and required a Repetition of the Operation, which was then effectually executed, as I had an opportunity of informing myself some Years afterwards.

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Of an incurable Disease of the Æsophagus.

I Have already given an Instance of a difficulty in Swallowing, which arose from a Pressure made upon the *Æsophagus*, by a considerable Tumour that appeared externally upon the Throat; and observed that the Patient was cured in consequence of its Extirpation. I took notice likewise, that some

of these Tumours arising in the neighbouring. Parts, are not to be relieved by Operation, on

account of their great Extent, &c.

Besides the incurable Tumours to which these parts are liable; there is another Species of Disease, which seems equally dreadful in its consequences, and incapable of being relieved by Physick or Surgery. This Disease is but too common, though not to my knowledge, as yet described by Writers.

In July, 1752, F. L. a young Woman aged 25, was admitted into Guy's Hospital, and put under the Care of the Physician, on account of a Difficulty in Swallowing, with which she had been afflicted for some Months. She had made use of all the Means that could be thought of in Physick for her Relief, but

to no purpose.

THERE was nothing appeared outwardly that could lead to the Discovery of the Malady, but she complained of a particular tightness in Swallowing, just below the back part of the cricoid Cartilage. The Part affected was situated too low to be looked into, but it was easily discovered by conveying down the Throat a bit of Spunge sastened upon Whalebone, and dipt in Sweet-Oyl; which, though

very

very small, could not be made to pass beyond it. She at length became incapable of taking any nourishment, and died soon after.

I OPENED the Neck after her Death, and inquired minutely whether I could discover any Swelling behind the Æsophagus, or betwixt that, and the Aspera Arteria; but there was nothing of this nature that could be seen.

UPON taking out the Æsophagus, it appeared considerably thicken'd about an Inch in length, just beneath the cricoid Cartilage.

Upon opening the Æsophagus length-ways, its Coats appeared so contracted in the diseased Part, as to be only just capable of admitting a Passage to a common Probe. The internal Coat of the Æsophagus was in part ulcerated, and besmeared with Matter.

THE Larynx, Aspera Arteria, &c. appeared sound and well.

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one, amongst the many in Physick and Surgery, that could not possibly have been prevented, or even relieved, if its Nature had been originally known; and that this Observation only

tends to prove, what must unavoidably be the Fate in other Diseases of the like Nature.

However, as it is always a Satisfaction to the Surgeon, and implies Judgment in him to be able to prognosticate with some Degree of certainty, what may probably be the Event of a future Disease of the like Kind, and by this means prevent the Administring of many useless Applications; for these Reasons, this Observation may not probably be esteemed altogether useless.

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### CASE X.

Of a Tumour situated upon the Forehead.

WHEN a Tumour, Excrescence, or any preternatural Appearance is born with Children; the Phænomenon is generally distinguished by the Name of a Mark, and attributed to some particular Desire of the Mother during Pregnancy. There are some of these which are Tumours of the encysted Kind, and though at first they appear inconsiderable, yet it frequently happens that they do not remain

main long in this State, but by gradually increafing, at length arrive to a confiderable Size, proving troublesome, and unseemly from their Situation and Appearance: To prevent which, it is generally adviseable to remove the Tumour when small; by which means much Pain is prevented, and the Scar arising from the Wound becomes inconsiderable.

I was consulted some Years since in the Case of a Child near a Year old, who was born with a Tumour of a Claret Colour upon the Face; it was at first no bigger than a common Pea, but before she had arrived to this Age, the Tumour was increased to the Size of a Wallnut.

I T was judged adviseable to have it cut out, which was done, and the Patient was cured in a little Time.



## CASE XI.

Of a Tumour situated upon the Occiput.

In the Year 1750, I was confulted in the Case of a Child, near two Years old, who had a Tumour situated upon the Os Occipitis.

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The Tumour was as large as a Turkey's Egg; and appeared filled with a transparent Fluid. It arose from the back part of the Brain, which was easily discovered, by examining the Basis of the Tumour. There was a Defect of almost the Whole of the Os Occipitis. The Child was lusty and strong, and had no visible Disease in its Limbs. I advised nothing, but to defend the Tumour from external Accidents; but the Parents being distatisfied with my Advice, consulted another Surgeon, who advised the Extirpation of it, which he did, and the Patient died in a few Days afterwards.

#### REMARK.

This is a Species of encysted Tumour which is sometimes seated upon the Vertrebrae of the Loins, sometimes upon the Vertrebrae of the Back, and at other times upon those of the Neck, Os Sacrum, or betwixt the Sutures of the Scull; all of which I had seen before. But I had never before now, seen an Instance of a Tumour of this Kind upon the Os Occipitis. These Tumours are to be distinguished from all others by their Rise, Situation, the Circumstance of their being always born with the Subject, who is generally

generally afflicted with a partial Palfey; and by their Contents, which are Fluid, and commonly transparent.

THEY take their rise from the Brain, or spinal Marrow, where there is a visible Defect of the Bone; which from the Circumstance of the Spine being divided, or rather defective in its processes, in that particular part, has given them the Name of Spinæ Bisidæ.

The opening of these Tumours by Incision, or taking them off by Ligature, has been always found to be satal; as observed by Tulpius, in the 29th and 30th Chapters of the 3d Book of his Observations; and by Ruysch, in his 34th, 35th, and 36th Observations. Ruysch observes, that Children thus afflicted, seldom live to sisteen Months old: but I knew an Instance of a young Man of twenty Years old, who had one of these Tumours upon his Loins. He was healthy, but had laboured under a Paralysis of his Legs from his Insancy: but not so bad a one, as to disable him from walking.

From this Observation I would infer, that it is always unadviseable to attempt the Extirpation, or opening of these Tumours, which E

posid

piece of Advice has been peremptorily delivered by Tulpius, in the following Words. Cave Sis improvide unquam aperias, Quod tam facile occidit hominem. N.B. Ruysch has given us a Case like this in his 52d Observation.



#### CASE XII.

Of an extraordinary Disease of the humeral Artery.

WHEN a Bone, and its neighbouring Tendons and Ligaments are affected with Inflammation, Caries, &c. The Disease may sometimes extend itself farther, so as to affect the neighbouring Vessels; or it may probably happen, that the Diseases of these particular Parts may sometimes proceed from a previous affection of those very neighbouring Vessels, from which they receive their nourishment and growth.

C.D. was afflicted with a Caries of the Joint of the Elbow, which was attended with fuch Circumstances as rendered the Amputation of the Limb necessary. The Operation was performed at a proper Distance above the diseased Part, and the Vessels were taken up by the Needle

and Ligatures.

In a few Days after the Operation, the humeral Artery became so dilated above the Ligature, as to endanger its bursting. Upon this Account, it was judged necessary to perform the Operation for the Aneurysm, which was done, and the Vessel secured by Ligature above the upper Extremity of its diftended Coats. After this, every thing went on feemingly well for some time, when suddenly the Artery appeared again dilated, and in Danger of burfting above the fecond Ligature. These Circumstances made it necessary to repeat the Operation for the Aneurysm; from this time every thing went on fuccessfully, till the Stump was at the Point of being healed; when, quite unexpectedly, the Artery appeared a third Time difeased in the same Manner as before; for which Reason a third Operation for the Aneurysm was determined upon, and performed.

THE last Operation was near to the Axilla, and the Patient continued well from this time

without any Relapse.

Query, Could the several Aneurysms of the humeral Artery be attributed to the sudden E 2 Check

Check alone, which the Blood met with from its Extremity being secured by Ligature; or is it not more reasonable to suppose, that the Coats of the Artery, nearly as high up as the Axilla, were originally diseased and weakened? The latter seems the most reasonable way of accounting for these successive Returns of the Disease of the Vessel; since it is found from Experience, that such Accidents have been very rarely known to occur after Amputations, either of the Arm, or Thigh, where nearly the same Resistance must be made to the Circulation in every Subject of an equal Age and Vigour, who has undergone the same Operation.

Is it should be supposed that the several Dilatations of the Coats of the Vessels arose merely from the Check in the Circulation; it will not be easy to account for the final Success of this Operation; and especially when we reslect, that the Force of the Blood is increased in proportion to its nearness to the Heart.

THE Nourishment of the Stump may be accounted for, from the Ramifications arising from the principal Trunk about the Axilla, which becoming dilated, in proportion to the Resistance the Blood meets with in its passage through the humeral Artery, were found suf-

ficiently

ficiently numerous and large to convey a proper Supply to the Parts beneath.

This Species of Aneurysm I have been defcribing, is distinguished by the Name of the true Aneurysm, and is a Disease which frequently happens to the Curvature of the Aorta, extending sometimes to both sides the Neck, sometimes producing convulsive Fits, and admits of no other than a palliative Relief.

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# CASE XIII.

Of an Aneurysm of the humeral Artery.

H. M. aged 37, was admitted into the Hospital in July 1753, with a Disease of the right Arm, which upon inquiry was found to be greatly swelled and enlarged. The Tumour extended from a little above the bending of the Elbow, to pretty near the middle of the Cubit; and appeared somewhat discoloured, and pointed on its superior part. Upon pressing the Tumour, I discovered a Fluctuation, but there was not the least perceivable Pulsation. He informed me of his having been E 3 blooded

blooded in the Basilic Vein about 13 Months ago, that he selt considerable Pain from the Operation, and that the Blood was discharged through the Orifice by leaps. Immediately after being blooded, he perceived a small Tumour to arise in the Neighbourhood of the Orifice, which in a Week's time arrived to the Size of an Egg, and continued to increase gradually for nine Months. For a few Week's after the Accident, the Limb was discoloured from the Shoulder to the Wrist, owing, without doubt, to the consinement of the extravasated Blood. He had considerable Pain for the first three Months.

The Operation was determined upon, and performed in the following Manner. The Tourniquet being fixed upon the humeral Artery, and the Arm disposed in a proper Situation, and firmly secured, an Incision was begun at the upper Extremity of the most prominent Part of the Tumour, and continued downwards about three Inches, directing the Knife in such a Manner as to describe the half of an Oval; then a second Incision was made on the opposite Side in the same Manner; by which means an oval Piece of the Integuments was cut out. Upon their removal.

removal, the Contents of the Tumour were difcharg'd. It confifted of a large Ball of coagulated Blood of a fibrous Texture contained in a thick Cyft, which appeared like the Coats of a Vein. Upon flackening the Tourniquet, the Wound of the Artery appeared circular and its Coats were discoloured, and thickened at least an Inch above its Division. A crooked Needle with a Ligature was passed under the Artery above the diseased Part, and tied upon it. A fecond Ligature was made upon the Artery below its Orifice, which should always be done to prevent the risk of an Hæmorrhage from this Part; fince it has been found that by neglecting to do this, a confiderable Discharge of Blood has ensued some Days after the Operation, and the Patient's Life been brought into imminent Danger by a Reflux of Blood from the neighbouring Anastomoses. After the Operation, the Wound was dreffed in the common manner, and the Patient removed to bed.

IMMEDIATELY upon tying the Artery, he complained of a Numbness in his Fingers, and no Pulsation could be discovered in his Wrist; but in half an Hour after the Operation, a very regular Pulsation appeared, and his Numbness began to go off.

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From this time he went on very well for feweral Weeks, but was at length feized with general Convulsions attended with the Symptom of a locked Jaw, which killed him.

#### REMARKJUM Lauft to cont

As a Pulsation in the Part is one of the principal Characterifics, by which an aneurysmal Tumour is distinguished from a Tumour proceeding from any other Cause; the want of it in the preceding Case may be accounted for, from confidering the Distance which the Artery was at from the Integuments, occasioned by the Quantity of extravafated Blood which lay upon the wounded Veffel; and again, there could be no room to doubt of the Nature of the Difeafer as the original Symptoms were a fufficient Proof of its certainty. The want of Pulfation in this Instance is not peculiar, fince by the succeed ing Cases it will appear, that they were likewife attended with the fame Circumstances. partly from the same Cause, and partly from the deep Situation of the Veffel under the Gastrocuemii Muscles, which rendered their Pulsations equally imperceptible.

THE Circumstance of a locked Jaw is no very uncommon Symptom; it sometimes

comes gradually on after a Wound, a Fracture of a Bone, Diflocation, or in Confequence of the Stricture made upon the Arteries, and their neighbouring Parts by Ligatures; at other times this Symptom happens on a fudden, and is generally the Fore-runner of a speedy Dissolution. But there are Instances where these Symptoms have been effectually removed by large Blifters applied to the whole of the back part and fides of the Neck. and add a little

Two Instances of which success, I remember to have seen within these few Years. It is generally advised upon undertaking an Operation of this kind upon the Arm, to have the Amputating Instruments in readiness, left a Mortification should ensue upon the Parts beneath the Ligatures, in confequence of an Obfiruction arising in the Vessels. But notwithstanding this is a Circumstance which may possibly happen, yet I must own, amongst the feveral Operations of this Kind which I have performed myself, or seen performed by others, I never once knew an Instance of its turning out so unfortunately, as to require Amputafully tions equal to a serie mudge for the the of well characters cook and position at a Total

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## COMPRESENTATION OF THE PROPERTY.

## CASE XIV.

Of an Aneurysm of the Arteria Tibialis Postica.

J. B. aged 34, the last Week in April, of the Year 1748, was taken with a Cramp a little below his Ham, which was followed with an immediate swelling of the Calf of the Leg, attended with excessive Pain; it continued in much the same State till the Month of July following, when it began to increase both in Size and Pain.

THE whole Leg was exceedingly tenfe, but there was not the least Pulsation to be discovered.

On Ostober 15, the Operation for the Aneurysm was attempted.

Upon opening the Tumour, the congealed Blood appeared to have acquired a fleshy Confistence; and adhered very firmly one Portion of it to another. Upon removing it totally, the *Tibia* and *Fibula* were found carious, and the Orifice of the ruptured Artery appeared just between the Heads of the *Tibia* and

the

and Fibula, so that it was impracticable to tie it, or at least judged unadviseable, considering the condition of the Leg.

I T was amputated above-knee on the Spot, and the Patient did well.

UPON opening the Knee, the Os Femoris was affected, and consequently the Artery diseased above the Part where it appeared to be ruptured. Some Years ago, the Operation for the Aneurysm was performed in a similar Case within a sew Hours after the Rupture of the Vessel. The Tumour increasing so fast, and the Pain proving so intolerable, that it was necessary to lose no time.

THE Tibialis Postica was burst in the Middle of the Leg, it was taken up with some difficulty, and the Patient recovered.

## REMARK.

WHEN we are convinced of the same Species of Aneurysm happening to any part where sufficient Pressure cannot be made to restrain the Hamorrhage; it is generally adviseable to proceed immediately to the Operation, lest the neighbouring Parts should become so affected by the Extravasation, as to bring on a Rottenness, and by that means render

the Operation impracticable, as happened in the first Instance, where it was found necessary to part with the Limb to save Life.

In the second Instance, it is probable that this was prevented by the timely Assistance

given by the Operation.

In Aneurysms of the Arm proceeding from a Wound of the Artery by a Lancet, the Cases are differently circumstanced; and thos it is found in general, necessary to proceed to Incision and Ligature for their Cure, on account of the Part having been neglected for some time after the Accident; yet there are Instances of Cases, where, upon timely Application, the Cure has been effected merely by Compress and Bandage; which I would recommend to be first of all tried in recent Cases, and to be continued for three or four Weeks at least, if there is no very good reason to forbid it.

THE Manner in which the Wound of the humeral Artery has appeared, upon Examination after Death, to be cured, is by an intimate Cohesion of the Aponeurosis of the Biceps Muscle, of the Capsula, and of the Wound of the Vessel; and it has been farther observed, that the Orisice made in the Artery (which appeared

appeared circular) has been stopt up with a Clot of solid Blood, resembling, on its external part, the Head of a Nail; which adhering sirmly to the Cicatrix of the Integuments, produced a considerable Callosity.

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#### CASES XV and XVI.

Two remarkable Cases of Ganglions, where the Operations were performed with Success.

on the tendinous and ligamentous Parts of the Extremities, are a Disease sufficiently known to every Surgeon of Experience, and have been treated of by most Writers under the Head of encysted Tumours.

THE Parts most frequently attacked with this kind of Swelling are the Hands and Feet; but there are Instances of their appearing upon many other parts of the Body; an extraordinary Instance of which I was some time ago consulted in, that possessed the whole back part of the Neck.

THESE Tumours sometimes take their rise from a Strain, and at other times they hap-

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pen without any previous Accident. Unless they disperse of themselves, or are removed by Art when recent, they frequently increase to a considerable Size, proving very inconvenient by depriving the Part of its Strength and Motion.

THE Methods prescribed for their Cure are various, but those which are said to have been found most effectual, are constant Pressure, and sudden Blows, which may have sometimes succeeded. At other times the Tumour has been known to disappear for a time only, and at length has returned again, owing without doubt to the Cyst being lest behind; which is well known to be frequently the case in every other Species of encysted Tumour, where the Bag is not sufficiently destroyed in the Operation, or by future Applications.

But as the Instances are so common, where all Attempts to disperse them prove ineffectual, and the Parts become disabled both from the Size and Situation of the Tumour, the Surgeon is at length obliged to have recourse to

the Knife, as a radical Cure.

I KNOW there are some who object to this Operation, on account of the Danger attending

a Wound of the subjacent Tendon, or Ligament; imagining that such an Accident would probably be attended with the worst of Consequences. But this Objection can be of no great weight, since it is always in the Power of a skilful and steady Operator to avoid this Accident, by cutting away only a part of the Cyst, and leaving the rest behind to digest out with the suture Dressings; which it will most certainly do, if the outward Wound be made sufficiently large, as has been already most judiciously and fully explained by Mr. Sharp, in his Chapter of encysted Tumours.

But supposing it should happen that the Tendon, or Ligament, or both should be wounded in the Operation, the Consequence will not probably be so bad as is apprehended, since every Day's Experience proves, that accidental Wounds of these Parts are known to do well with proper Treatment; and, as some proof of the Validity of this Hypothesis, the two following Cases are related. In both of which it was found absolutely necessary to divide a considerable Ligament, before the Operation could be properly and effectually performed.

A. M. 19 Years of age, in the Year 1745, strained her Wrist by a Fall. The Accident was immediately followed with great Pain, a Weakness, and Swelling of the whole Hand; which, notwithstanding the proper Methods used for her Relief, continued much in the same State till 1749; when she perceived a small distinct Tumour to arise in the inner, and lower part of her Wrist, which in a sew Days increased to so great a degree, as to render her incapable of shutting her Hand, or moving her Fingers.

On the 21st of April 1750, she applied to me. Upon Examination I discovered a Fluid in the Tumour which extended for about an Inch above the Ligamentum transversale carpi, to about half an Inch below it, and upon Pressure seemed to pass underneath it.

I DETERMINED upon the Operation, which
I performed in the following manner. Her
Hand being properly placed and secured upon
a Table covered with a double Blanket; I
began my Incision a little above the upper
Extent of the Tumour, and continued it to
a little beyond its lower Extent, through the
Integuments, which I carefully diffected up,
on each side. This gave me an opportunity of
discovering

discovering its exact Situation, which I found to be under the Tendons of the Flexor carpi ulnaris, and Palmaris longus Muscles. Both of which were confiderably lifted up, and removed from their natural Situation, by the subjacent Tumour. It likewise extended itself under the Ligamentum transversale carpi, which there was a necessity of dividing, before I could have an opportunity of diffecting the Tumour from its Basis. The upper part of the Cyst was strongly attached to the inferior parts of the Tendons of the Flexor carpi ulnaris, and Palmaris longus Muscles. The lower part of it adhered to the Tendons of the Perforans and Perforatus Muscles; from whence I fairly disfected the whole away.

THE Contents of the Tumour were a Composition of a gelatinous and steatomatous Sub-stance.

SHE continued in a good deal of pain for four Days after the Operation; at the end of that time she grew easy, and so continued to the finishing of the Cure, which was perfected in six Weeks without any considerable Instammation, or the least Abscess, and she was restored to the perfect use of her Hand.

THE other Case was so like That I have just now described, that I look upon it as unnecessary to give a particular account of it.

THE Operation was performed in the fame manner, and the Cure was attended with no other difference in its Progress than this, that the Patient had a small Abscess which arose on the middle part of the Fore-arm, which was opened by Incision, and did well, with very little trouble. The Use of the Hand was as perfectly recovered in this, as in the preceding Case.

# THE RECEPTION OF THE PARTY OF T

# avojna won Si A S E XVII.

Of a Ganglion fituated upon the Pore-finger.

C. P. a very lusty Woman, aged 50, some Years ago perceived a Swelling to arise upon the anterior part of her Fore-singer, which at length increased to the size of a pigeon's Egg. It was now become so trouble-some from its Size and Situation, as to deprive her of the use of her Finger, and to render it quite incapable of Motion.

CASE

IT was not attended with much pain, but from the Circumstance of its uselessness, the was desirous of having it removed.

SHE had asked the Advice of several Surgeons who refused to undertake it.

AT length flie applied to me: I faw no objection to the Operation, and accordingly proceeded to the Extirpation of the Tumour.

It's Contents were intirely gelatinous, and contained under the Capfula of the Tendons of the Flexor Muscles of the Index, or Fore-finger.

THERE was neither much difficulty, nor pain, in the Operation; and the Patient did well in a short time, without the least Interruption or bad Symptom. She now enjoys the perfect use of her Finger.

But notwithstanding the favourable Circumstances that attended these several Operations; I would not have it inferr'd from what I have said, that Inflammations and Absorbes very rarely happen in consequence of the Operation. I confess, I have known them to occur several times, but I never knew an Instance of their terminating otherwise than well.

CASE

## SERVER RESERVE SERVERS

## CASE XVIII.

Of an Empiema, where the Operation was unfuccessfully performed.

JOVEMBER 1750, S. K. aged 37, in May last was suddenly seiz'd with a Pleuritic Pain in his right Side, attended with a Fever and difficulty in Breathing; for which he put himself under the Care of a neighbouring Apothecary, who bled him occasionally, and at the same time administer'd such Medicines and topical Applications to the Part as he thought proper, but without effect. He continued much in the same State, till July following; when he was admitted into the Hospital under the Care of the Physician, who prescribed for him near four Months, but without much Benefit. On the first of November following, he was attacked with an uncommon difficulty of Breathing, and Pain in his right Side, for which he was blooded, this gave him some relief. On the Day following, I was consulted; upon learning his Symptoms, and

and upon inquiring into farther Particulars, I discovered the right fide of the Thorax to be fomewhat larger than the left, and the Integuments appear'd a little thicken'd, but without the leaft tendency to Discoloration, Softness, or any appearance of a Fluctuation. He was incapable of lying on his left Side without fuffering exceffive Pain, which he defcribed as extending from the middle of the Breast-bone to the Back. This was perceivably attended with fo great a difficulty of Breathing, as feem'd to threaten Suffocation. He could lie on his right Side without any confiderable inconvenience, but he was most easy when lying on his Back: he never had been troubled with a Cough till within this last Month; nor had he ever perceived the least Discharge of Matter, either by spitting, or otherwise. His Pulse was quick and low, his Countenance pallid, he had no Appetite, and complained of great Restlessness. It is remarkable, that he never remembers to have had any Rigor, which is a Circumstance that commonly attends the Formation of Matter. Upon the Appearance of the foregoing Symptoms, I thought proper to advise the Operation for the Empiema, which he readily affented to, and I performed it on the Spot

1007

Spot in the following manner: When the Patient was properly fituated and fecured, I began by making an Incision of about two Inches and a half long with the Course of the Ribs, upon the part where they form their greatest convexity, and betwixt the fixth and feventh Ribs, into the Cavity of the Thorax, from whence there iffued three Pints of a thick fœtid Matter; from this Instant, he was greatly relieved. The Discharge was very considerable for the five first Days, when it began to decrease. From the moment of the Operation, he was capable of lying on either fide, or of fitting upright without the least inconvenience; and he continued to grow better till the first of December following, when his Difcharge increased, and continued in great Quantities till his Death, which happen'd in about feven Weeks after the Operation. Upon opening the Body, I found the Disphragm destroy'd quite through, and the upper part of the Liverhad fuffer'd greatly from the incumbent Matter. The Lungs lay loofe in the Cavity of the Thorax, and were not in the least ulcerated, or apparently discased. anothern's only on

N. B. In the Operation, the Incision was made nearer to the superior Edge of the lower

Rib,

Rib, than to the inferior Edge of the Upper, which prevented the Risk of wounding the intercostal Artery.

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Two Cases of the Operation for the Empiema successfully perform'd and read before the Royal Society the 19th of March 1752, and 28th of June 1753.

# tion, he was capable of lying on either fide, or of him white well-incon-

Thaged 27, was admitted into the Hofpital on the 19th of December 1751, on
account of a Pain in his right Side, and Cough,
which he had labour'd under for three Weeks;
he was immediately put under the Physician's
Care, but notwithstanding all proper methods
used for his Relief, his Disorder increased till
the 13th of January sollowing, when I was
consulted.

Upon enquiry, I found him afflicted with the following Symptoms. A quick low Pulse, frequent Cough, and difficulty of Breathing, which last Symptom was greatly increased upon

F 4

lying

lying on his left Side, or upon fitting upright. He appeared greatly emaciated, his Countenance was very pallid, or fallow. Upon further enquiry, I found the right fide of the Thorax somewhat enlarged; the Integuments were visibly thicken'd, but without the least Discoloration, or perceivable Fluctuation. However, being persuaded from the foregoing Symptoms, that there probably was an extravasated Fluid underneath; I advised the Operation; which was consented to, and I performed it upon the Spot in the following manner.

THE Patient being conveniently seated, I made an Incision of about three Inches long with a Knife, between the tenth and eleventh Ribs, counting from above, and at about four Inches diffance from the Vertebræ; the direction of the Incision was agreeable to the course of the Ribs, and upon being made nearer to the fuperior Edge of the eleventh Rib, than the inferior Edge of the tenth, the intercostal Artery by that means escaped being wounded; upon dividing the intercostal Muscle, very near twenty Ounces of Matter were discharged. After this, I introduced my Finger through the Wound into the Cavity of the Thorax, but CASE found

found no adhesion of the Lungs to the Pleura; from whence I am inclined to conjecture, that this Abscess was originally form'd in the cellular Membrane of the Pleura, and had at length made its way into the Cavity of the Thorax.

WHAT feems to corroborate this Conjecfure is, that the violent Symptoms which happened upon lying on the found Side, or upon fitting upright, did not occur till within a Week before his Application to me. From the moment the Matter was discharged, he found very great Relief; his Respiration became quiet, his Fever and Cough gradually abated, till in about fix Weeks he perfectly recovered, and was accordingly difmis'd the Hospital. The Discharge from the Wound continued in confiderable Quantities for the first Fortnight; during which time the Wound was kept properly open with Tents; but when the Discharge was no more than what might be expected from a superficial Wound of the fame Size, all Tents were discontinued, and superficial Applications only made use of thento Oursell in Miller wife littly quied

After this, I introduced thy Pinger than the

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# CASE XX.

On the 19th of March 1752, I did myfelf the Honour of communicating to this Society the Cafe of T. H. on whom I had perform'd the Operation for the Empiema with Success. Since then I have perform'd the same Operation a second time with equal Benefit; and therefore prefume to lay this Cafe likewife before you as a farther Proof of its ufefulness under the like Circumstances.

#### CAS BIZERS

C. aged 17 Years, was admitted into Guy's Haspital on the 10th of May 1753 on account of a Complaint in his Cheft which he had labour'd under for three or four Weeks I out non

Hr's Symptoms were a continual Pain in his left Side, a difficulty in Breathing, and an inability of lying on his right Side, or of fitting apright, without greatly increasing his Complaints; his Pulse were quick and low, he had a short Cough, was a good deal emaciated, and appear'd fallow in his Complexion. Derfect Knile

UPON

Upon Examination, I perceiv'd a small Tumour situated on the anterior part of the Thorax, obliquely on the left Side of the Extremity of the Sternum, or Breast-bone. There was not the least Discoloration of the Integuments. Upon pressing the Tumour, his Pain, and difficulty of Breathing were encreased, and there appeared something like a Fluctuation under my Fingers. He had never had any Rigor, which is a Symptom generally attending the Formation of Matter; but from Experience I have found, that the Want of this Symptom is no proof of the contrary.

FROM the foregoing Circumstances and Symptoms, I made no doubt of the propriety of the Operation, which I perform'd in the

following Manners and no issoloti e violoti

The Patient being properly fituated and fecured, I began with making an Incision of about two Inches long through the Integration of the chique Muscles of the Abdomen, upon the most prominent Part of the Tumour, then I proceeded to the making a fecond Incision of an equal length with the first, transversely through the upper Part of the Rettus Muscle (which had a perfect healthy Appearance) directing my Knife

Knife forward betwixt the cartilaginous Portions of the seventh and eighth Ribs, and the Extremity of the Sternum, into the Cavity of the Thorax; upon which, a thick clotted Matter was discharged, to the Quantity of twenty

three Ounces and upwards.

As foon as the opening was made into the Cavity, and the Fluid began to be evacuated (which was by leaps) the Patient express'd a painful and uncommon kind of Senfation, which he compar'd to a Weight being fuddealy taken from his Heart. Hence, I conjecture that this part had fuffer'd so great a Compression, as to have been for some time incapable of performing its natural Actions, but, upon the Fluid being fet at Liberty, the Ventricles of the Heart probably became immediately more dilated, than they had been for fome time before, on account of the Weight they had fuffain'd. After the whole of the Matter was discharged, I introduced the Forefinger of thy right Hand into the Cavity, with which I evidently felt the Lungs (quite loofe and free from Adhesion) the Mediastinum, and superior part of the Diaphragm, which last part had been press'd considerably lower than its natural Situation, by the Weight of Knike the

the incumbent Matter; from whence it undoubtedly appeared, that this great Quantity of Fluid had been contained in the Thorax. After the whole of the Matter was discharged. I introduced a Linen Tent, properly secured, into the Cavity, which was continued to be introduced every Day for about the Space of three Weeks, now and then, as occasion required, making use of the prepared Sponge-Tent. The Discharge was considerable for the first Week, when it began to decrease gradually, till at the end of three Weeks there was no discharge at all. From this time superficial Applications only were made use of at the End of five Weeks, he was perfectly well in all respects, and had recover'd his former plumpness and healthy Appearance. To estaint

I MUST observe to you, that about two Years ago he received a violent Blow on his lest Side by a Fall, for which he had little or no Care taken of him. He has ever since this Accident been afflicted with some Complaints in his Side at times, but not conconstantly, nor have they ever been so bad as to prevent his acting in his business as a Sallor, till within a few Weeks before he applied to me.

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FROM the Circumstances, and Symptoms attending the three preceding Cafes, I think it could hardly be doubted what the Nature of the Disease was; and as the Lungs, Diaphragm, and Intercoftal Mulcles must not only be impeded in their Actions, in proportion to the Quantity of extravalated Fluid, which is confined in the Cavity of the Thorax, but must also be in great danger of Ulceration or Confumption from the Quality, and Preffure of the incumbent Matter; I look upon the Operation in all Cases of this Kind, to be absofutely and immediately adviseable, and that it should not be deferred in expectation of the Fluid being absorbed into the Circulation, and evacuated by Urine, by Stool, or by Spirting: Since it must be acknowledged, that the Inflances are very rare where these Events have been fuccessfully brought about; and at the fame time that the Inftances are numerous, where Death has enfued in confequence of the Operation being deferr'd too long, or being totally neglected.

THE Operation for the Empiema is neither very difficult nor dangerous, and I conclude there can be no better Arguments advanced in support

fupport of its fafety and usefulness, when undertaken in time, than the Success that attended its performance in two of the three preceding Cases; in which it has been already observed, that the Discases were only of a few Weeks standing: in the third Instance, where it has been likewise already observed, that the Operation was not fuccessful; I think this want of Success might, with some Reason, be attributed to the Injury which had been communicated to the Diaphragm, and superior part of the Liver, in confequence of the long Confinement and quality of the Fluid; or it may possibly happen, that the Matter had been originally formed in one or both of thefe parts, and discharged itself into the Cavity of the Thorax; which, for want of being evacuated in time, had at length increased the Difease. and destroyed the Patient by the Largeness of the Ulceration, and Quantity of the Discharge.



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## PUDITE SERVICE CONTRACTOR OF THE PERSON OF T

# - CASE XXL

Of an incarcerated Hernia Inguinalis.

A B. about 30 Years of Age, in the Year 1748-9, was brought into the Hospital with an Hernia Inguinalis, which he had been subject to for many Years without ever wearing a Truss. It had been down for ten Days attended with excessive pain, without being once return'd, or any means used to relieve him. His Symptoms were a low languid Pulse, frequent reachings to Vomit, and Hiccoughs. The Tumour was still exceedingly tense, for which reason it was judged advisable to proceed immediately to the Operation. The Contents were a Part of the Intestinum Ileum and Omentum, both exceedingly inflamed, and the latter tending to Mortification. They adhered to each other, and the Omentum to the Sac formed by the Peritoneum, which was become thicker than a Crown piece, and feemed quite distinct from the Tunica Vaginalis, upon which it lay. The Sac as well as the difeafed Part neets

Part of the Omentum were cut off, without making any Ligature upon either of them. The Intestine and found part of the Omentum were returned into the Abdomen, and two stitches were made through the Integuments. after having first dilated the Rings of the oblique Muscles upwards and outwards with a Pair of probe Sciffars. Soon after the Operation, a Clyster was administer'd, by which means two or three Stools were procured, and the Patient grew tolerably easy. The second Day after the Operation, the whole Abdomen became prodigiously enlarged and tense; but in a few Days afterwards it subsided, by the help of Fomentations and Clysters, and the Patient went on feemingly well to the eighteenth Day; when on a sudden he became very restless, a violent Looseness, attended with delirium, enfued, and he expired about forty eight Hours after this Attack. Upon opening the Body, I found the Intestines in general greatly inflamed, the Ileum was mortified in many places, and feveral Abcesses were form'd in the Mesentery.

Query. Is it not probable, that the bad Symptoms, such as Inflammation, Tension, &c. ceased a few Days after the Operation; and

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that the Fever, attended with Inflammation, which came on afterwards, was merely accidental, and not at all the Effect of the Operation? Since it is very certain that all Inflammations of the Bowels, terminating in Mortification, are very speedy, and admit of no great Intermission in their Progress.

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#### CASE XXII.

Of an Hernia Umbilicalis from Tapping.

Notwithstanding it seldom happens that an Hernia is form'd in conquence of opening the Integuments at the Navel, in order to evacuate the Water contained in the Abdomen, in that Species of Dropsy call'd Ascites; yet there have been undoubted Instances, where this Species of Rupture has arisen merely from this Cause, and been attended with such Circumstances as made it necessary to perform the Operation for the Hernia Umbilicalis. It appears that the opening made through the Peritoneum, tho' very small, is nevertheless capable of being so enlarged

enlarged from the Stream of Water in the time of its Evacuation, or from the Pressure of the Intestines against the internal Part of that Membrane, grown greatly distended and flaccid from the Quantity and Nature of the Contents, as to make it incapable of resisting the Force it sometimes meets with in Coughing, Sneezing, &c.

A. B. was admitted into the Hospital with an Ascites or Dropsy of the Abdomen, which was become fo distended by the Water, as to render him incapable of lying down without bringing on such a difficulty of Breathing as threaten'd fuffocation (from the Compression, probably, which the Diaphragm and Lungs labour'd under in this Situation) fer these Reasons it was judged necessary to Tap him. Upon Examination, his Navel appeared portuberant, and pushed forward as large as an Egg. Its Integuments were thin, and almost transparent. Upon my considering that an opening made through this part would be fufficient to evacuate all the Water; and having feveral times performed the same Operation (agreeable to the Advice of the Moderns) without incurring the least inconvenience, I did not at all hefitate at the

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Propriety of repeating it, which I did in the following manner.

THE Patient being seated in a Chair of a convenient Heighth, and his Hands properly placed across the upper Part of the Abdomen, at the same Time having an Affistant to press on each side of it, I plunged the Point of a common Lancet into the Navel on its most protuberant part, and by this means discharged the Whole of the Fluid without farther trouble: After this, a Flannel Compress, dipt in Spirits, was applied upon a Plaister that was first put to the Wound, which was fecured on by a long Flannel Roller, and the Patient removed to Bed. He appeared as well as could be wish'd for feveral Days, but at length complain'd of excessive pain in the Navel, which appear'd fwell'd and inflamed, attended with frequent reachings to Vomit and Fever (the constant Symptoms of an incarcerated Hernia) I endeavoured to relieve him by Fomentations, Clysters, &c. but his Pains remaining intolerable, and being incapable of affifting him by any other means. I proceeded to the Operation, which I performed in the following Manner. of the Control stort more

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THE Patient being removed from his Bed and laid fupinely upon a Table of a convenient Height, cover'd over with a double Blanket, I placed a Pillow under his Shoulders, by which means the Abdomen became relax'd; his Legs at the fame Time hanging down from the Sides of the Table, were properly fecured by two Affistants. After this, I began with making an Incision, with a round edged Knife, at the upper Extent of the Tumour; continuing it in a straight Direction downwards, a little beyond its lower Extent, carefully through the Integuments: Upon which, I discover'd a Portion of the Intestinum Ileum without any of the Omentum; the Intestine was greatly inflamed. When I had proceeded thus far, I introduced the Fore-finger of my left Hand through the Wound into the Cavity of the Abdomen, with which I gently compress'd the Intestine, and then proceeded to enlarge the Wound with the fame Knife, which I introduced upon my Fore-finger. This gave me an opportunity of returning the Intestine without Difficulty. It appear'd quite loofe, and free from adhesion. When the Intestine was thus return'd, I made one Ligature across the Wound, by passing a crooked G 3 - Needle

Needle through the Integuments only, at about a Quarter of an Inch from the Edge of the Lips of the Wound: but the Abdomen appearing confiderably distended in two Days after the Operation, and the Patient complaining of great uneafiness from the Ligature, I immediately cut it away, which relieved him; but the Symptoms of his Vomiting, &c. still continued, and he expired in a few Days afterwards.

Query. Is it not probable, that if the Operation of the Paracentesis had been perform'd on the left Side of the Abdomen, obliquely below the Navel, half way betwixt that and the Spine of the Os Ileum, that the Patient might have lived for some time, as is very common in Cases of this Kind; and is it not more than probable that his speedy Death was brought on by the strangulated Intestine? if this is allow'd, it may be inferr'd from the preceding Cafe, that the Operation cannot be faid to be entirely free from that Danger, which may always be avoided by tapping with the Trocar, in that part of the Abdomen, I've just now described. Though I must own this Accident is not likely to occur often, fince this is the only Instance of the

the Kind I have ever feen, which arose from the like Cause.

# SOLUTION OF THE PROPERTY OF TH

## el or in C A S E XXIII. Cl sinol hor

Of a Wound penetrating the Abdomen.

J. W. aged 22, was stabb'd with a Horse-Picker on Wednesday the 22d of November, 1748, about three Inches a little obliquely on the right Side, below the Navel. He bled very little at first; about an Inch of the small Intestine push'd out at the Orisice, which was return'd by a Surgeon, and the Wound sew'd up.

THE Wound continued discharging Blood in small Quantities till the Sunday following, when his Fever increas'd, and a large Quantity (as nearly as could be guess'd about a Pint) of blackish curdled Blood, burst out at the Orifice; the Ligature burst open the following Week.

THE Fever continued with Vomitings, accompanied with a Tension of the whole Abdomen, which was particularly hard and tumified, in the Neighbourhood of the Orifice.

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In this circumstance, I had thoughts of dilating the Abdomen, in order to evacuate the extravasated Blood; but the Sunday following it discharged itself in a larger Quantity than before, and continued to discharge very greatly for some Days, when at last it began to diminish; all the bad Symptoms (Vomiting, Purging, Fever, loss of Appetite, &c.) by degrees abating, and in process of time the Discharge was purulent, but considerable in quantity. However, it healed without any further Incision, and was well the 17th of January sollowing.

Query. Is it not reasonable to imagine, from the Circumstances attending this Case, that the Violence of the Symptoms arose from the extravasated Fluid being confined in the Cavity, and from the Inflammation consequent, upon the Needle and Ligature being pass'd through the Peritoneum and tendinous expansions of the transverse Muscles?

It is probable, that if a free Discharge of the Blood could have been procured from the Beginning (which might possibly have been effected by leaving a depending Orifice) these Symptoms might have been prevented. So that in all Wounds penetrating the Cavity

of the Abdomen, we should only make use of the Suture, where the Intestines are incapable of being retained in their proper Situation without it; at the same Time having a Regard to a depending Orifice for the Discharge arising from the divided Vessels.

## DAKAHOGO MEDDAMORKANIKE

## CASE XXIV.

A fingular Case of the Stone,

perienced Writers in Surgery, that when a Stone, taken out of the Bladder, is found to be rough on its Surface, it amounts to a Proof of there being no other remaining behind. But notwithstanding it is confirm'd by Experience, that this Observation is generally well grounded, yet there are Instances which prove this Rule to be not altogether without exception.

For which reason it is adviseable not to be determined absolutely from appearances only, but to be farther satisfied during the Operation by introducing the Fore-singer, or a Female Catheter through the Wound into the Bladder; Bladder; which may always be done without giving much Pain to the Patient, or any great trouble to the Operator; and is doubtless the best way of being satisfied in a fact of

fo great Importance.

SINCE I have had the Opportunities of making the two following Observations; I can't help conjecturing, that there have been fome Instances of a Stone, or Stones, being left behind in the Bladder, merely from having too great a Confidence in this general Rule at the time of Operating; which Opinion I am led into, from having fomerimes known Patients relapse into the same Disorder, in a few Months or Weeks after the healing of their Wounds, and to require a fecond Operation: When the Stone, upon being extracted, has appeared of fo confiderable a Size, as to make it probable, that it must have been of much longer growth than the fhort Time between the two Operations could admit of. In double

In October 1753, I cut a Boy of 14 Years of Age, from whom I extracted a rough Stone of the Size of a Pigeon's Egg. After which, I introduced my Fore-finger through the Wound into the Bladder, and discover'd a fecond rough Stone, nearly of the Size with the former,

former, which I likewise extracted, and the Patient recovered without any occurrences worthy of communication.

# REMARK.

In a few Days after the Operation, it commonly happens that some of the Urine passes through the Urethra, and continues to do fo without interruption, till the whole of it finds its way through this Channel, and till the Wound is healed; but I have fometimes obferved, that at the end of feveral Weeks, the Urine still continues to flow in great Quantities through the Wound, and endangers a Fistula, or at least greatly retards the healing of the Wound. In fuch cases, I have often introduced a Bougie through the Urethra into the Bladder, with advantage. This, by equally diffending the Passage, and pressing upon the internal part of the Wound, has in a few Days diverted the course of the Urine, and disposed the Parts to heal more evenly and expeditiously, than they otherwife would have done.

N. B. The Reason that induced me to be particularly circumspect in the Case I have just now spoken of, arose from the following Accident.

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In December 1752, I saw ten rough Stones presented to the Royal Society, which were taken out of the Bladder of an old Man; the largest of which weighed eight Ounces and an half, the others were small; these Stones were taken out of the Bladder after the Patient's Death.

SINCE then it appears, from the preceding Accounts, that two Instances have cocur'd in so short a time, which prove Exceptions to the general Rule laid down by almost all Writers, I was induced to offer these Histories to prove the possibility of the like Phanomenon happening again.

# GENERAL PROPERTY OF THE PROPER

#### Tol. 2011 10 C A S E XXV.

Of a piece of Bone, together with a Stone in the Bladder, successfully extracted: inserted in the Philosophical Transactions, printed Anno 1753.

THE Stone in the Bladder is a Disease common to both Sexes, and the Symptoms and Circumstances attending it, are in general so much alike and so well known, as to render few Cases of this kind worthy of particular notice; eptice; but as the following is attended with a very fingular, and perhaps unparallell'd Circumstance, I am induced, merely on this accorde, to give a short History of the following Fact.

M. E. aged 48, (in all other respects an healthy Woman) had been afflicted with the Symptoms of the Stone in the Bladder for about two Years, for which she put herself under my Care. After having prepared her in the usual manner, I proceeded to the Operation, but in a Method somewhat different from that generally practifed, which is effected merely by a forcible Dilatation, and confequent Laceration of the Urethra; but having almost always observed an Incontinence of Urine, in consequence of this Method of Operating, for this reason, and from the Success which I had fome time ago met with in the Case of M. B. mentioned hereafter, from whom I had extracted an Excrescence that was growing on the Infide of the Bladder; I differ'd from the usual Method of Operating, and cut the Urethra obliquely upwards on the right Side to about half its length, which I easily effected by introducing a small Knife into the Groove of the Staff, and found very little force requifite

Forceps into the Bladder, and in the Extraction of the Stone, and piece of Bone.

Upon laying hold of the Stone, it broken for that only a part of it, of the fize of a Pigeon's Egg, was extracted upon the first Introduction of the Forceps into the Bladder; upon introducing the Forceps a second time, I extracted a ragged and irregular piece of Bone weighing fixteen Grains, which I have now in my Custody.

BEFORE the Bone was washed and cleansed, its Cavities appear'd filled, and covered with a Mixture of hairy and stoney Particles; from whence I conjecture, that it probably was the Nucleus of the Stone.

Nothing remarkable occurr'd during the Cure, but that the Patient ever fince the fear cond Day after the Operation, was capable of retaining her Urine, and recover'd perfectly in less than three Weeks after the Operation was perform'd.

Operations, I have always follow'd the same Method of dividing a part of the Urethra in Females, previous to the Introduction of the Gorget, &c. and have found it to be much

much more easy to the Patient, less troublesome to the Operator, and more successful, than when perform'd by a forcible Dilatation of the *Urethra* without Incision.

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#### CASE XXVI.

Of a Retention of Urine occasioned by the Size of the Hymen.

IT has been observed by many Writers, that a straitened Prepuce in Males penetrated by so small a Hole, as to prevent a free Discharge of the Urine, convey'd in a full Stream through the Urethra, is often productive of fuch Symptoms, as are fimilar to those arifing from a Stone in the Bladder; which are probably occasion'd by a Distension of the Prepuce, and an Irritation of its internal Part, and the Glans. The Removal of these Complaints depends upon a longitudinal Divisionof the Prepuce, or a Circumcifion of its Extremity, by which means a free Issue is procured to the Urine. But I don't remember to have read any Observation of a Disease of the like Kind happening to Females, and producing tei.

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producing the fame Symptoms, from a preternatural Formation of their Parts.

In the Year 1749, I was confulted in the Case of a little Girl about three years old, who had labour'd under fuch violent Symptoms in voiding her Urine ever fince her birth, as to make it suspected by her Physician, that the had a Stone in her Bladder. Upon enquiry, I was inform'd that her Urine came away by drops, that she was inclined to put her Hand to the Pudendum, when the made-Water, and that she could not help crying, and stamping with her Feet, merely from the Pain. These Symptoms so nearly resembled those of the Stone, that I thought proper to propose the passing a Staff into the Bladder, that we might be fatisfied whether there was a Stone, or any other Disease of the Urethra, or Bladder; but upon endeavouring to do it, I observ'd the Urethra was at least half cover'd over with a Continuation of the Hymen, which appear'd imperforated; for this reason, I could with difficulty execute my Design. However, I effected the Introduction of the Instrument into the Bladder, without using much violence, but there was no Stone, or any other præternatural appearance to be felt

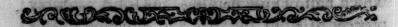
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in that, or its Passage. Seeing this, I gave my Opinion, that the Difficulties and Pains which arose in discharging the Urine, probably proceeded from the Size and Situation of this Membrane; which I recommended as necesfary to be divided. It was comply'd with; and I accordingly proceeded in the following Manner. The Infant being placed upon her Back, and properly confined upon a Table of a convenient Height, in the same Manner as is done in the Operation for the Stone: I divided the Membrane with a small Knife by making a longitudinal Incision, and the Patient was cured in a few Days, by anointing the Parts with Sweet-Oyl, affifted with an emollient Fomentation.

## REMARK.

If the Circumstances of a Difficulty in making Water had not occur'd, so as to have made it necessary for the Parents to seek for Relief during this Infant State, it must have happen'd, that at the Time of Puberty, the Menses could not have been voided; so that the Surgeon must have been then obliged to have divided this Membrane, to have given liste to what must have been otherwise confined; as has been known to have been sometimes.

found imperforated in Adultness.



# CASE XXVII.

Of an Amputation of the Penis.

C. aged 63, about four Months ago perceived a small Pimple to arise upon the Glans Penis, which continued without pain for fix Weeks. At the end of which Time, it grew painful, and increased in fize, which obliged him to apply to a neighbouring Surgeon for relief. The first Applications made use of to the Part, were emollient Cataplasms, which were continued for a Fortnight, but without any other effect than keeping the Part easy, and preventing an increase of the Symtoms. Seeing this, he was induced to apply a Caustic to the Excrescence, which brought on excessive pain, and produced an Ulceration; and from that time, the Tumour began to grow confiderably worse.

On the 3d of August 1749, he was admitted into the Hospital. Upon examination

the whole Penis was found cancerous, and confiderably enlarged, to within about an Inch and a half of the Abdomen, attended with excessive pain.

IT had for the last four Weeks discharged fo greatly, as to weaken him confiderably, and had bled at times, but not very profusely. On the feventh Instant, it was amputated near the Abdomen, in the following manner.

A TOURNIQUET was applied on the Penis, as near the Abdomen as possible, and an Incifion was made first through the Integuments only, which were drawn back, and then a fecond Incision was made as near as posfible to the Integuments through the Corpora cavernosa; there was no Instrument introduced into the Uretbra, nor was there much difficulty in stopping the Hamorrhage, which was effected by the Needle and Ligature.

A FEW Hours after the Operation, he urin'd freely, and from this time continued to go on very well, till he recover'd. But in a few Months afterwards, he relaps'd into the

same disorder, and died.

A SIMILAR Case to this is mentioned by Ruysch, in his 30th Observation; but there the Operation is described as being perform'd

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in a very different Manner, as follows: A Catheter was introduced through the Urethra into the Bladder, and confined by a proper Ligature from slipping out; after this, a Ligature was made very tight upon the Penis above the diseased Part; the next Day, a second Ligature was applied upon the first, and in five Days after, the Penis was amputated with a Knife in the same Part, which had been almost wore through by the Ligatures.

THIS method was made use of, in order to prevent an Hamorrhage; for he observes, that by this means, the Part became almost mortified off, and no bleeding enfued. But as this method must be infinitely more painful than what attends the Operation, when perform'd by Incision only, I think there can be no doubt, which of the two is preferable. Mr. Ruysch observes, that the Patient did well, and continued fo. He fays, that part of the Penis which was left behind. drew quite back into the Abdomen, fo that he was obliged to make use of an Ivory Pipe, which was occasionally introduced through the Urethra into the Bladder, to prevent the Inconvenience of being wetted by the Urine.

### REMARK.

It is worth observing, what different Effects were produced by the Emollient, and Caustic Applications in the preceding Case. The First it appears, kept the Parts easy, and prevented the Disease from increasing, though it had no farther tendency to the Cure of the Wound. But the Latter, which was painful, immediately aggravated the Symptoms, and considerably increased the Instammation and Ulceration. This Case is one of the many, which shews the Impropriety of all painful Applications to Ulcers that are attended with the like Malignancy; and at the same time the great Advantages of such as are emollient and relaxing.

FROM the Event of Ruysch's Case, we may learn the Possibility of Success after the like Operation; though it must be acknowledged, that the Instances are rare where the Patient does not relapse into the same Disease.



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# SOUS-DESCRIPTION OF THE PROPERTY OF THE PROPER

# CASE XXVIII.

Of the good Effect of medicated Bougies, in diseases of the Penis and Scrotum.

P. E. in August 1731, contracted a Clap, which he neglected till the March sollowing, when there appeared a Swelling in the Scrotum, which suppurated, and was open'd by Incision. He was at the same time put under a Course of Physick; but notwithstanding this Treatment, there appear'd a second Swelling on his Scrotum soon afterwards, which suppurated, and was likewise open'd; his Urine issued through the Wound, and continued to do so for four Months, when it healed up.

He had a purulent Discharge from the Penis the whole Time, attended with frequent Inclinations to Urine, which came away sometimes by drops, at other times in a small twisted Stream tinged with blood, and attended with excessive Pain. He remain'd pretty nearly in this State, till August 1747, when he perceived a Swelling to arise in Perinaeo,

rince, which obliged him to apply for further advice. The Tumour suppurated, and was open'd by Incision, and the Patient salivated. But notwithstanding all proper care having been taken of the Wound, it remain'd fistulous.

HE was admitted into the Hospital, the first of December 1748. Upon examination, I discover'd two Fistulas in Perinæo, and two more in the Scrotum, through which the greatest Part of his Urine was discharged. The Scrotum was enlarg'd to four times its natural size, and appear'd anasarcous.

THE whole Penis was distorted, and its Integuments extreamly thicken'd. Upon introducing a Probe into the Urethra, I discovered an Obstruction about an Inch and half distant from its hither extremity, which I could not break through. The Day following, I introduced a medicated Candle, which was kept for fome Hours in contact with the Obstruction; it produced a considerable Difcharge of Matter; the Bougie was continued for fome Hours every Day for about a Week, when the Obstruction gave way. A little farther up the Urethra, there was a fecond Obstruction, which was removed in a few Days by the fame means. After having H 4 fur-

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furmounted these two difficulties, I met with a third near the Entrance into the Bladder, which was made to disappear by the same Application in ten, or twelve Days; fo that I could now introduce a small Bougie quite into The Bougies first used were the Bladder. very fmall, not larger than a common knitting Needle; but their fizes were gradually increased, till I could easily introduce those of the Size of a Goofe-quill.

FROM the Time I got into the Bladder, the Fiftulas grew better, the Tumour of the Scrotum fubfided gradually, till in about five Months he was perfectly cured, and the Parts appear'd in their natural State. The Swelling of the Scrotum was form'd in consequence of the Urine having infinuated itself into the cellular Membrane. I faw him two Years after his cure, he was then perfectly well, and had not perceived the least return of his Diforder. Before he left the Hospital, he could Urine in as full, and large a Stream, as though he had never been diseased, and was well in every other respect.

THE Inference I would draw from the preceding Case, is to prove the great usefulness of Mr. Daran's Method of treating these

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Diseases, and at the same time to shew, that it is undoubtedly true, as has been already observed by Mr. Sharp, in his Critical Enquiry, that whatever Applications will produce a Discharge, must probably be attended with nearly the same Success, if continued a proper time. The Composition of the Bougies made use of in this extraordinary Case, was, one Ounce of old Diachylon, and two Drachms of Mucillage Plaister, slowly melted together; to which was added a Drachm and half of white Precipitate, which being stirred together, and afterwards spread upon Rag, was cut into slips, and rolled up in a conical Form for use.

I HAVE several times since made use of the same Plaister, with an addition of one Drachm and half, or two Drachms of Calomel, or red Precipitate sinely lavigated and stirr'd into it, with equal benefit, in a Variety of Cases; and could never discover any material Difference, either in their Essicacy, or manner of Operating.

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## CASE XXIX.

Of an Hydrocele,

M. aged 63, in the Year 1749, about eight . Months before he applied to me, received a Blow upon the Scrotum, which in a few Weeks afterwards began to swell, and continued to increase from this time without pain, till the 27th of September of this Year, when he was admitted into the Hospital. The Disorder appear'd to be an Hydrocele, or Dropsy of the Tunica Vaginalis, which upon being tapp'd discharged about ten Ounces of a clear Water. About a Week after the Operation, the Water had collected nearly to as great a Quantity as before; upon which, I perform'd the Operation a fecond Time. After the whole of the Water was evacuated, I introduced a fmall Spunge Tent into the Orifice, which was continued for twenty four Hours without producing any pain, or visible effect. Seeing this, I renewed the Introduction of the Tent, which remained in till the third Day. During this time,

time, there was no Discharge at all. Upon Examination, the Scrotum began to appear fomewhat harden'd and inflamed; on which account the Tent was omitted, and a Pultice of Bread and Milk applied to the Part. On the fourth Day, a small quantity of Matter oozed through the Orifice, which increased confiderably for about ten Days, when there appeared a small Abscess on one side of the Orifice, which, upon being open'd, discharged about an Ounce of Matter; from this time, the Discharge became trifling, till it was quite well, which was in four or five Days afterwards. The Coats of the Testicle, and Testicle itself, form'd an Adhesion with each other. It is observable, that the Pain and Fever which attended the Cure were fo trifling, as render'd it unnecessary for the Patient to keep his Bed longer than two Days; which, in all probability, was owing to the gentle and gradual Action of the Tent upon the Tunica Vaginalis.

From the Success which attended this method of Operating in the preceding Instance,
I have been induced to perform it several times since in the same manner upon other

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### CASES in SURGERY.

subjects; most of which Operations have been attended with equal Lenity and Benefit.

## ROTE CONTROL OF SHEAR OF SHEAR

### CASE XXX.

Of a Tumour growing on the Inside of the Bladder, successfully extirpated; inserted in the Philosoph. Transact. for the Months of April, May, June, and July 1750, printed Anno 1751.

A N Excrescence, or Tumour arising from the internal Coat of the Bladder, is a Disease, though not very common, yet sufficiently known to the curious in Physick and Surgery. But I believe that hitherto, no one has attempted the Cure of this Disorder by Extirpation.

No R indeed can it be supposed that the Instances are frequent, where the Operation is practicable: But as it is notorious from the History of Physick, and Surgery, that several Disorders which were formerly unobserved, have been found to occur frequently, after their Nature has been once discovered and exactly described, I flatter myself, the Publication

lication of this Account, may possibly throw fome light on the present Subject.

M. B. aged 23, on the 24th of June 1747, strained herself, by endeavouring to lift a great Weight; she was immediately seiz'd with a Pain in the Small of her Back, and a total Suppression of Urine; which Symptoms, notwithstanding the several Methods used for her Relief, continued till the 29th of the same Month; when an eminent Physician, and Man-midwife was called to her Assistance, who drew off her Urine with the Catheter.

DURING the Suppression, she was seiz'd with an acute Fever, and for eighteen, or twenty Hours before her Urine was drawn off, she discharged by the Mouth a great quantity of saltish Water tinged with Blood; which, upon lying down, slow'd in so great quantities as to threaten Suffocation.

In April 1750, she applied to me. Upon enquiry, I learnt she never had been able, from the moment of the Accident, to void a Drop of Urine without the Assistance of the Catheter, which had been ever since made use of two or three times every twenty-four Hours; that she was in continual pain, and had lately been much weakened, by having several

feveral times lost considerable quantities of Blood, occasion'd by the Force made use of, for the Introduction of that Instrument into the Bladder. Upon examining her with my Fore-singer, which I introduc'd with great dissidulty through the Meatus Urinarius, I discovered a considerable Tumour, which seem'd to be of a slessly Substance, and took its rife from the lower part of the Bladder near its Neck; the Extent of which I could with difficulty reach. I observ'd it to protrude a little way out of the Meatus Urinarius, upon straining to make water when the Bladder was full; but upon ceasing to strain, it presently return'd.

It had preserv'd pretty nearly the same Appearance ever since it was first taken notice of; and about eighteen Months ago, a small Incifion was made into it by a Surgeon, on presumption of its containing a Fluid, but without

any effect.

HAVING first prepared her, as before the Operation for the Stone, that is, by giving a gentle Purge on the Day preceding the Operation, and an emollient purgative Clyster a few Hours before I operated, the Rectum by this means became emptied, and consequently did not make so great a degree of Pressure upon

upon the inferior part, and neck of the Bladder, as it would otherwise have done; which gave me an opportunity of executing my design with much less difficulty, than I should probably have met with in the Performance of the Operation, had I attempted it without this preparation.

WHEN this was done, I proceeded to the Extirpation of the Tumour, which I effected

in the following manner.

WHEN her Bladder was full, I order'd her to strain, as though she was going to make water; upon which, I perceived the Tumour to protrude a little, this, I effectually secured from returning into the Bladder, by the help of a crooked Needle and Ligature, which I passed through the Tumour in different Directions, and endeavoured to draw it out through the Meatus Urinarius, but could not effect it by reason of its Largeness.

SEEING this, I dilated the Meatus Urinarius on the right fide, by cutting it upwards about half way towards the Neck of the Bladder; when, by pulling the Tumour forwards, I had sufficient room for tying it with a Ligature passed round its Basis, which was very large.

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For the three first Days after the Operation, she complained of a good deal of pain in the Abdomen.

On the fixth Day after the Ligature was made, the Tumour dropt off.

FROM the first Day of the Operation, she voided her Urine without any assistance, and is now persectly well in every respect.

THE Size of the Tumour was nearly equal to a Turkey's Egg, and fomething like to it in shape.

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## TIS VODEL OF C A S E XXXI. His pure raido

A remarkable Instance of two Excrescences of the Urethra, successfully extirpated.

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The Eurinary Passages of Females, as well as Males, are incident to some Disorders, which are not to be cured or reliev'd but by surgical Operations. These Disorders in Males proceed from various Causes, which are generally to be accounted for from a previous venereal Affection, or the frequent passage of gravelly, or stony Particles, through the Urethra,

Urethra, though it is certain that they sometimes happen without any accountable cause.

IT feems to have been a Matter of Difpute amongst Surgeons, whether these maladies arise from Excrescences, Caruncles, Contractions of the Fibres of the Urethra, Callofities proceeding from venereal causes, callous Ulcers of the Lacuna of the Urethra, or Affections of the proftate Gland, or the rest of the mucous Glands of the Urethra. But it is a Matter of no very great Confequence, what the exact Nature of the Disease may be, seeing the Cure depends entirely upon the removal of the Obstruction, and it is probable from observing, that as other parts of the Body are liable to these several appearances, this part is fo too; and though it has been afferted by many, that there is no fuch difease as a fungous Excrescence in the Urethra of Males, owing to the Difficulty of discovering fuch appearances after Death, yet from the Analogy there is fublifting betwixt the Structure of the internal Part of the Urethra of Males and Females, I am inclined to think, that the Existence of this fungous Appearance in them can hardly be doubted; and that a very trifling Disease of this Kind, is (2000) capable

Pains may be concluded from the History of the following Case, the Cure of which immediately depended upon the Removal of a Fungus of so inconsiderable a Size and Appearance, as would not have been regarded in many other parts of the Body. But as the same Operation cannot be undertaken in Males with an equal probability of Success from the difficulty of knowing the exact Situation and Nature of the Disease, as well as from the different Length of the Uretbra itself; we are oblig'd to have recourse to such methods as operate more slowly, and not with so great a degree of certainty.

E. C. a Virgin aged 27, had been afflicted, as I was inform'd by herself, and her Mother, with a Disease in the urinary Parts, ever fince she was four Years old. The Symptoms under which she had laboured from the Beginning, were frequent inclinations to make Water, which she voided by drops, and

with exceffive pain.

SHE had never been quite free from these complaints ever fince her first attack, but was particularly ill at the Times of having her menses. These discharges were in general regular,

regular, both as to time and quantity; when it happened otherwise, her complaints were greatly encreas'd, especially at the very Time when she expected a Return of them. The Pain and Irritations had been frequently fo great, as to occasion Convulsions; and she had been always incapable of getting her livelyhood at Service.

SHE had try'd various methods for her relief, without receiving the least Benefit.

In January 1754, I was defired to attend

· Upon enquiry, I learnt that her complaints had been from the Beginning in the Urethra. and neighbouring Parts. I carefully examined into the Meatus Urinarius, by introducing a female Catheter, with which I dilated it by inclining the Instrument to one fide, and with some difficulty discover'd two Excrefeences arifing opofice to each other from the internal Part of the Urethra, near its hither Extremity. To bondy could not well in W.

EACH of these Excrescences was near as broad as a Silver Penny, and refembled the Valves of a Vein in their Situation.

THEIR colour was red, their texture spongy, and they confisted of a Number of Fibres, as refuller.

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appear'd upon Examination after being re-

Upon discovering their seat and rise, I proceeded to extirpate them; which I effected in

the following manner:

THE Patient being laid upon her Back, and her Knees bent and rais'd, I divided the Urethra a little way obliquely upwards on its left fide with a Pair of Scissars, then I proceeded to snip off the Excrescences at their roots, to do which, the previous Division of a Part of the Urethra afforded me sufficient room.

THE Operation was expeditious, but painful. There was very little discharge of Blood at first. In a few Hours after the Operation, the wound bled profusely, but at length stop'd of itself.

From this time, she had no other inconvenience or pain in the Part, than what arose from the Acrimony of the Urine, which gradually abated till the Wound healed, which was in about ten Days after the Operation.

The only Applications made use of to the Parts, were Fomentations of warm Water and milk, and afterwards a dossil of Lintspread over with cooling Ointment, and repeated twice or thrice a Day of blood on the A

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I HAD the Curiofity to call upon her, about five Months after her Cure. She informed me, that she had continued perfectly well without the least Return of her Complaint, and that her monthly Discharges had been regular ever since I left her, without producing any of her former Symptoms.

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### CASE XXXII.

A remarkable Instance of a Wound by which the Tibia was entirely divided.

ON the 9th of October 1749, J. L. aged 44, receiv'd two remarkable Wounds from his Antagonist, who struck him with a Hedging-bill. The one upon the upper Part of his left Leg, immediately beneath the Infertion of the Tendon of the Patella, by which the Tibia was entirely divided, without any remarkable contusion of the Integuments, or neighbouring Muscles; the other on the left Side of the Head, which divided the parietal Bone quite to its Diploe, and he lost a considerable Quantity of Blood, before any Assistance could be procured him.

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THREE Days after the Accident, he was admitted into the Hospital and put under my care. His complaints were a Giddiness, Fever, and Costiveness; for which he was let Blood, and Stools were procur'd by a Clyfter; from this treatment he was confiderably relieved. The following Day, his Giddiness had quite left him, and his Wound had a favourable aspect, which continued to go well on, till the 21st Instant, when the Discharge was confiderably increased. appear'd oily, and fmelt very fœtid. He had rested but little the preceding Night, and complain'd of great lowness and oppression. Upon presfing the Ham, a confiderable Quantity of Matter was discharged, and upon introducing the Probe, both Bones were found bare. From this time, the Discharge continued to increase till the 26th; for which reason, I made a counter Opening, in order to procure a more depending Orifice for the Evacuation of the Matter. On the 27th, he was attack'd with a Looseness, attended with a Fever, and restlesness; which several Symptoms continued till the 4th of November following, when his frength became greatly impair'd, his appetite quite loft, and colliquative fweats coming on, BERRE

it was judged adviseable to Amputate the Limb, which was done above Knee, and the Patient recovered; all his bad Symptoms difappearing from the Day of the Operation.

UPON examining into the Condition of the Leg, the Tibia and Fibula were found carious

for a confiderable Length.

THE wounded Cranium became granulated, and was quite healed in a few Weeks, without any exfoliation or difficulty attending its Management.

#### REMARK.

THE Looseness, Fever, &c. which came on fo many Days after the Accident, could not be attributed to the Pain and loss of Blood arifing from the recent Wounds, as the Patient had been quite easy and well for feveral Days together; nor could they arise from any Impropriety in his diet, &c. fince he had been kept in the most abstemious and quiet Manner, from the Time of his Admission into the Hospital; but these Symptoms may reasonably be accounted for from the fætid Matter being absorbed into the Blood, and falling upon the tender Vifcera; and it is most likely, this was the Case, feeing the feveral bad Symptoms of Loofeness, Fever,

Fever, and Lowness immediately disappear'd upon the Removal of the Part affected.

Query. Is it not probable, from the Circumftances I have mentioned, that if the Operation had been deferr'd, the Patient must have funk under the Discharge, or have died from a Reflux of the Matter into the mass of Blood?

Ir these Arguments are of any weight (which feem to be supported by many Instances given us by Authors of undoubted Authority) the Operation was beyond diffaute adviseable, and must in general be so, where compound Fractures, Wounds, or Abscesses of the Joints are attended with the like Symptoms. For though there may be a few Indi stances of the recovery of People, who have been nearly under the fame Circumstances yet I think, they are by no means sufficiently numerous to induce one to trust to any other " method of preferving Life, than by having recourse to the Operation. To which the Patients generally fubmit with great resolution, in expectation of a Recovery. but discharg'd

worde C.A. Stine time the appetite became



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A fingular Instance of a diseased Joint requiring

Amputation.

IN the Year 1744, T. C. accidentally injur'd his Knee by a Fall, it appear'd fwell'd, and continued painful for fome Months; but at length, by proper management, grew quite well, and fo continued for three Years; when his Symptoms return'd with violence, and increafed for three months, notwithstanding the Affiftance given him by a neighbouring Surgeon; who, besides the Use of Fomentations, and other various applications to the Part affected, made him an Issue by Incision just below, and on the Outside of the diseas'd Knee, which was kept open for fix Weeks, and then dried up. About a month after the Iffue was healed, a distinct Tumour appear'd immediately below the Patella and on its outfide, which bursted of itself, but discharg'd very little. However, he grew considerably worse from this time; his appetite became bad.

bad, and his Leg and Thigh began to waste. Under these Circumstances, he was admitted into the Hospital. But notwithstanding the several methods used for his Relief, his disease increased to so great a Degree, as to make amputating the Limb necessary, which was done above Knee, and the Patient recovered.

## REMARK.

Upon opening the joint, the Integuments were found greatly diseas'd, the Ligaments appeared considerably thickened, and the Extremities of the Os Femoris and Tibia greatly enlarged, and their Cartilages eroded.

Besides these Phænomena which are common to almost all diseased Joints requiring Amputation, it had one thing peculiar to itself, which was, that it contain'd five Peas which were confin'd within the Capsular, or Bursal Ligament of the Knee. I examin d whether I could discover the opening made by the Peas through the Ligament, but could not. It is to be observed, that the Issue had been healed up for near three Months before the Amputation.

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# CASE XXXIV.

Of a fractur'd Patella.

1 B. aged 2.5, in August 1747, broke her Knee-pan by a Fall down Stairs, for which she put herself under my care. The Extremities of the divided Bone were at a confiderable Diffance from each other, but by extending the Leg, and gently pressing the muscles, and Tendons of the Thigh above the fractur'd Part, I brought them to within ran Inch of each other, and they were retain'd in this Situation by a proper compress and Bandage. In a few Days after their Reduction, I gently moved the Knee, by carefully bending and extending it, which was repeated every Day during her cure. At the end of fix Weeks, the appeared to well recover'd, as to be able to walk upon plain Ground, or up and down Stairs with very little inconvenience. She could bend and extend her Knee very well; the Parts of the fractured Bone remaining at the same Distance from each other, in which which they were at first placed. I observed during my care of her, that she had formerly broke her other Knee-pan, and that the Parts of the fractur'd Bone were then at least three Inches distant from each other. She inform'd me, that she had never applied to any one for Assistance in this case; and that during the whole Time she had been capable of walking about, but was lame for three Months after the Accident. Since which time, she has enjoy'd the free use of her Leg, and has been capable of walking upon plain Ground, or up and down Stairs without pain or difficulty.

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# CASE XXXV.

Of a fractur'd Patella.

S. P. 43 Years of Age, broke her Kneepan in October 1748 by a Fall down Stairs, for which accident she was recommended to my care. Upon enquiry, the whole Knee appeared greatly contus'd, attended with a considerable Ecchymosis and Tumour, which could not be dispers'd for near three months.

Upon

Upon the Removal of these Complaints, the Extremities of the fractur'd Bone were discovered to be near two Inches from each other; her Knee appearing at the same Time stiff and inslexible, in which state it remain'd for some time afterwards; but by the use of Fomentations, relaxing Ointments, and daily pains being taken in bending the Joint; it at length became slexible, and she was capable of walking upon plain Ground without any lameness, or other inconveniency, but the going up and down Stairs, was attended with more difficulty.

### REMARK.

THE Method recommended above, in the Treatment of transverse Fractures of the Patella, is very different from the general Rule laid down by Writers to be observed in the like Cases. Their advice being, to bring the Extremities of the Bones, if possible, into Contact with each other, and to keep the Leg immoveably extended for eight or ten Weeks; but fince it is found by Experience, that in consequence of such management, the Joint becomes stiff and instexible, from, probably the Callus of the broken Bone and Synovia

Synovia of the Joint mixing together, and foldering up the Joint, there is no doubt of the great Impropriety attending this method of Treatment; and for these reasons, it is now a Custom with some of the most eminent in the Profession, to treat these Accidents in the manner I have prescrib'd, preserable to that which has been advis'd by Authors, by which means, the motion of the Part is still preserv'd.

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Of a Division of the Tendo Achillis.

WHEN a Tendon is in part divided by a sharp Instrument, or wholly broken through, in consequence of Jumping, Dancing, or any other extraordinary Violence; it is agreed, that the bringing the divided Extremities into contact with each other, and the keeping them so for a certain time by the helps of Compress and Bandage, are generally sufficient to compleat a Reunion, or at least an Adhesion of these parts, to the neigh-

neighbouring ones, without any farther Operation. It is nevertheless advis'd by Writers, who approve of this method under the like Circumstances, to make use of the Needle and Ligature, when the Tendon with its Integuments becomes totally divided by a sharp Instrument.

But from the several Instances of divided Tendons, which have come under my Cognizance, and which have been fo treated, I have observed, that the Parts always suffer confiderable Pain and Inflammation from being stitch'd, and generally terminate in Abscesses of the neighbouring Integuments, and floughs of the Extremities of the Tendon. through which the Needle and Ligature have been pass'd; by which means, the Cure is confiderably retarded, and extraordinary pain incurr'd. So that from these Observations, and from many others, I am induced to recommend a total Disuse of the Needle and Ligature, and to trust to a favourable Position of the Limb, affifted by proper Compress and Bandage. Again, the Needle and Ligature should not only be rejected in Divisions of the Tendons, but in all other recent Wounds, and all sales and a sold and a state where

where Compress and Bandage can be apply'd to advantage.

A. B. had the Misfortune of dividing the Tendo Achillis, about two Inches above the Os Calcis by the Slipping of an Ax, with which he was at work. He was put under my care. Upon Inspection, I observed the upper Part of the Tendon to be at a confiderable Diftance from the Lower in consequence of the Contraction of the Gastrocnemii Muscles. I made use of no other method in bringing the Extremities together, than bending the Knee, extending the Foot, and gently compressing the Leg downwards from the Calf; which, being done, I applied a Bandage from the Ham, quite to the upper Edge of the Wound. At the fame time, observing to keep the Foot extended. which was secured in this Situation by the help of a Piece of Paste-board properly adapted to the Foot, and fecured on by a fecond Bandage. The Parts were kept in this posture for five Weeks; at the end of which time. the Wound was heal'd, and the Extremities of the Tendon appeared perfectly reunited, or at least adhered to their neighbouring Parts. The Ancle became stiff from being constantly kept - 1/12

kept in this position, but by the use of Fomentations, and an Embrocation of Neatsfoot Oyl, it soon became pliant, and perfectly useful.



## CASE XXXVII.

Of a Division of the Flexor Tendons of the Wrist.

B. accidentally run his Hand through a Pain of Glass, which cut his Wrift on the fore Part, quite a-cross. The upper cubital Artery was divided, and bled profusely, but was stopt without much difficulty by the Needle and Ligature. The Tendons of the Flexor Carpi Radialts, Pulmaris lengus; and Flexor Carpi Ulnaris Muscles, were likewife divided, and their upper Extremities were drawn at a confiderable distance from the lower ones; the Flexor Tendons of the Fingers were in part divided; however, upon bending the Hand, and pressing the Arm downwards, the Parts were brought together, and kept in that Situation till cured; agoni K which

CASE

which was in twenty-five Days after the Accident. Upon healing the Wound, the Parts appeared stiff, and somewhat uneven, but by the help of Fomentations, relaxing Oyls, and gentle extension frequently made use of, they perfectly recover'd their free Motion, usual Strength and Eveness.

I SHOULD not have thought these Cases worthy of Communication, had not they been merely intended as an Illustration of the Advantages of this Practice, preserable to the other Method.

It is worth observing, that the Inslammation which succeeded upon this method of Treatment, was no more than what always happens to other parts in incised Wounds of equal depth and size, and that there were neither Abscesses, nor Sloughs in consequence of the Accident, or Management of the divided Tendons.



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# C A S E XXXVIII.

Of a Rupture of the Tendo Achillis.

A B. had the Misfortune to break the · Tendo Achillis entirely in two by Jumping, but as he was ignorant of the Injury he had fustain'd, he was carried home, and had not proper Affistance given him till a Week after the Accident, when he was recommended to my care. Upon Examination, I found the Tendo Achillis entirely separated; the Extremities of the divided Parts were at least an Inch and half distant from each other. and the Patient complain'd of confiderable Pain. I proceeded to the Reduction of the divided Parts which I effected with some difficulty by extending the Foot, bending the Knee, and forcibly compressing the Muscles downwards. When this was done, I placed a Compress upon the Leg, from the Ham down to the upper edge of the divided Tendon, and upon this, applied a Roller, with a Degree of tightness sufficient to prevent the Con-K 2 traction

traction of the Muscles, called Gastrocnemii; when this was done, I placed a Linen Compress upon the upper Part of the Foot, and upon that, a piece of Paste-board, which were fecured on by Bandage, and the whole Leg was tied up in a Pillow. He became easy soon after the Reduction of the Tendon. and so continued till he left me, which was in about five Weeks; during which time, the Compress and Bandages were renew'd as occasion required. The Extremities of the Tendons remain'd together, but he continued lame and weak in the Part for some time, till at length he recover'd the Use and Strength of the Limb. I did not observe, that there was any wasting of either of these Limbs, as is not uncommon after Accidents of the like kinds of boneth in sector by the enough to be

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Ir it should be infifted upon, that the Needle and Ligature are still adviseable in Tendons that are divided by a sharp Instrument, they cannot but be equally fo in Tendons that are divided by being ruptured where there is no injury done to the Integuments; but I fancy it will be allowed upon confideration, that a divided Tendon is as likely traffich:

to do well, as a fuptured one, where the Parts may always in recent Cases be brought together with equal ease, and kept so by a proper Situation of the Part, affifted with Compress and Bandage.

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Monfieur Faget's Remarks on the Use, &c. of the Styptic purchas'd by his Most Christian Majesty; communicated by James Theobald, Esq; F. R. S. inserted in the Philosophical Transactions for the Year 1753.

December 7, 1752, about the end of the Year Seventeen hundred and fifty. Mr. Broffard, a Surgeon from Berry, came to Paris, to propose the use of a Remedy, which he had discover'd for stopping the Blood after Amputations, and which he afferted, to have found effectual in feveral Amputations of the Arms and Legs.

AT his request, fome Gentlemen of the Academy of Surgery were deputed, in whose presence he was to make some new Experiments in stopping the Blood upon different Animals, and in all which he fucceeded, by stopping it in the largest Arteries after Amputation. But the Success of this Remedy

K 3 might might yet be consider'd a little dubious, because many Animals, as in Dogs particularly, the great Arteries stop of their own Accord; and rarely any Dog dies from an *Hæmorrbage*, because their Blood is more disposed to congeal, and by that means to stop the Discharge.

For this reason, the Experiments made on Animals not being thought satisfactory, and yet being convinced, that no ill effect could sollow the Application of this Remedy on human Kind, Mr. Brossard was permitted to use it at the Hospital of the Invalids, in an Amputation of the Leg, which succeeded perfectly well; and not the least ill Accident happened through the whole time of the Cure.

SOMETIME after this, two Waggoners were run over by a Waggon loaded with Stone, and each of them had one Leg broken in a miserable manner. These two Men being brought to the Hospital of the Charity, I saw no other hopes of Success, but in amputating the Legs; and, for that reason, I requested Mr. Brosfard would be present, and give me a Proof of this new Application, which we applied in the following manner.

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As foon as the Leg was cut off, I flackened the Tourniquet to discover the Vessels, and Mr. Broffard applied upon the Orifices of the two Arteries, two pieces of his Astingent, fastened one upon another with a Ribband. in the Manner which I have fent to you, and as it is in the Drawing. After the Application was made, I streightened the Tourniquet, and pass'd the two ends of the Ribband, which was fastned to the upper Piece of the Astringent, upon the Stump, over the Knee, and applied a Linen Bag, fill'd slightly with the fame Aftringent in Powder, upon the whole Wound; and, over all, applied the common Dreffings in the like Cafe. After the Dreffing was finish'd, I slackened the Tourniquet, and two Hours after, took it entirely away. Eight and forty Hours after this, we took off the Dreffings, and not the least drop of Blood follow'd from the Vessels; and we again applied one fingle piece of the Astringent upon the two Vessels; and I dress'd the other Parts of the Wound with Pledgets of Lint, with common digestive, a Styrax Plaster, and the usual Bandage. In hashapas,

THE third Day the Astringent sell off of itself, in the time of Dreffing; and the Patient, K 4 +

after that time was dreffed in the common Manner. The same was done to the other Patient, after the Amputation, as to this.

THE first of these Men died on the fifth Day, and the other on the ninth; but there did not appear through the whole, the least tendency to an Hamorrhage. Thus the Remedy fairly produc'd its effect, as to the stop-

ping of the Blood.

However, in order to determine the Manner, in which this Astringent produces its effects, I examin'd the Blood-Vessels of those two Patients after their death, and I found them contracted and straitned, as if they had been tied, and in the largest of them a conic Coagulation of the Blood, which was an Inch and half long; and after having taken out this Coagulation, it was with dissipation, that I could introduce the Point of a very small probe into the Orifice of that Vessel.

THE Patient who died on the ninth Day, had the Arteries contracted in the same Manner; but with this difference, that the Congelation was at least four Inches long.

Mr. Morand has employ'd this Remedy with Success, in applying it to a Wound made

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by a Sword in the bending of the Arm; and, I myself have made use of it, with great Success on occasions where the temporal, and intercostal Arteries have been opened.

In the last mention'd Cases, I applied but one piece of the Styptic upon the opening of the Artery; and this generally falls off at the first Dressing, that is, forty-eight Hours after the Application, without the least Appearance of an Hamorrhage, or other ill Symptoms which can raise any Objections to this Styptic; for those Patients are all recover'd.

THERE have been lately made at the Hofpital of the Invalids, two Experiments of this
Astringent in Amputations; and in both, the
Success has been equal to all that can be desuccess has been equal to all

Thus, then at last, there appears to be discover'd a Remedy beyond our hopes, and which Art has never yet equall'd. The Application of Fire was the cruel Resource of the Ancients; and Paré believ'd himself inspired, when he discover'd the use of the

Ligature. But, alas! how many Accidents are there, which arise from the use of those two Manners, and which too often terminate in the Death of the Patient! Happy for us, that those Accidents now appear to be no longer to be sear'd by the lucky Discovery of this Styptic, the first Experiments of which have so greatly promis'd Success!

It may be remark'd, that, if this Astringent succeeded only in coagulating the Blood, it has produc'd nothing extraordinary, for these Coagulations would not have been sufficient to have stopp'd the Hamorrhage, directly after the Operation in Amputations; but its excellency lies in contracting the Arteries so closely, that it hardly lets a little Probe into the Aperture of the Artery, and by this means, forms as it were a perfect Ligature, much more certain than the usual one, as this is not made in any one point of the Cylinder of a Vessel. Thus this Application exceeds every thing, which has hitherto been produc'd by the Operation of our hands.

This fingularity in the Operation of this Remedy, supposes another in the Vessels, which is the great Contractility of the Fibres of the Arteries. These, indeed, do naturally contract

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of themselves, but not to two thirds of their Diameter; nor to that state, in which they are straitned by the effect of this Astringent; because by that, the whole Aperture is almost intirely taken off in the largest Vessels, and it is easy to imagine their Effects in the fmalleft.

IT may be observed, that it is not in the dead parts of Bodies that this Contraction can be made; it requires the Affistance of the vital Principal, and operates on the Fibres by certain Articles contain'd in it, which dispose the Animal Body, by its Irritation to shorten its Fibres, and reduce the tiffue which they compose in a lesser Volume.

This Remedy, of which I have been fpeaking, is nothing else but the Agaric of the Oak. The best kind of it is found on the Parts of Oak-trees, where the large Limbs have been cut off, and it very often resembles a Horse-shoe in its shape. This Agaric is diffinguish'd into four parts, the Rind; the fecond Part, which is preferable to the other; the third Part serves for the stopping the Blood in smaller Vessels, as well as that part which touches the Tree; this last was what was indeed, do naturally control

powder'd, and applied in the little Bag, as

in the Operations of the Charity.

THE second Part is what I make use of in Amputations, which is cut into pieces, of the Size of that which I have sent you. It must be beaten by a Hammer till it is soft, and this is its whole preparation. Every part is prepared alike.

THE best time of collecting it, Mr. Broffard has found to be in the Antumn, in fine

Weather, after great Heats.

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This, then, Sir, is all I can collect of the Use, Application, and Preparation of this new Remedy for stopping Blood. If the Royal Society shall find any thing in it worthy their regard, I shall think myself happy in having communicated these Observations.

At the time of reading the above Memoir, some bits of Agaric were exhibited to the Royal Society, part of which was delivered to me to make trial with, upon the next Opportunity, which I did in a few Days after with Success; and presented the following Account of its effects to the Royal Society, which was read by one of the Secretaries.

December the 14th, 1752, Thursday. Hatton-Garden.

AGREEABLE to the Defire of this Society. I have taken the first Opportunity of Communicating the Effects of the Agaric of the Oak in stopping of Hamorrhages, or bleeding from the principle Vessels after Amputation. If I have been too circumstantial in my Narrative of the Symptoms and Circumstances attending the following Case; I hope you will attribute it merely to the Defire I have of giving you all the Satisfaction I am capable of, relating to the Experiment made with this Styptic; and this I have been more particularly induc'd to, as it is the first Cafe of the Kind offer'd to your Confideration, where this Application has been made use of in England.



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### C AS E XXXIX.

Of an Amputation of the Legional

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CATURDAY, December the 9th, 1752, C. S. aged 24, had her Leg amputated below the Knee, at twelve o'Clock at Noon on account of an incurable Ulcer, with which the had been afflicted for 13 Years. She loft very little Blood in the Operation. Immediately after the Amputation, a Piece of Agaric of a proper Size. (The same which was deliver'd to me by the Royal Society for this purpose) was applied to the mouths of the Principal Arteries. Two other small pieces of Agaric were applied to the Mouths of two fmaller Arteries, which appear'd at some diftance from the principal ones. Upon the Pieces of Agaric, Doffils of Lint were applied, and over all, a Pledgit of Tow spread with yellow Basilicon, which were kept on by the common Bandages made use of in fuch cases, and applied with the usual degree of tightness.

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For about an Hour and quarter after the Operation, the Tourniquet was kept on moderately tight at a convenient Distance above the Knee, at the end of which time, it was flackened fo as to have no degree of Preffure upon the Femoral Artery. The Patient was much easier than I had ever observ'd after the use of the Needle and Ligatures. Her Pulse appear'd very little disturb'd, till about four o'Clock this Afternoon, when the Symptomatic Fever began to come flightly on. attended now and then with convulfive twitchings of the Stump and Thigh; for which reasons, the Tourniquet was somewhat tightned. At feven o'Clock this Evening, the Tourniquet was quite let loofe; foon after which, the convultive Twitchings became less frequent, and less severe; These Spafms of the Limb, she had been long used to have, and by her own account, they had been more severe before the Operation, than fince.

SHE had but little rest this Evening; Sunday Morning she appeared as well as could be expected, her Pulse was calm, and she had no particular Complaints. At twelve o'Clock

o'Clock at Night, the fell afleep, and fo continued till feven o'Clock the next Morning.

Monday Morning the appear'd well, her Pulse was calm, and she had no particular pain. Monday Night she slept but little, but was very easy the whole Time; Tuesday Morning she appear'd very well, and her Pulse quiet; this morning, she was dress'd in the usual Manner, her wound appear'd with a very good Aspect. She has suffer'd no pain in the Part where the Agaric was applied, and is in all respects as well as can be expected. At seven o'Clock this Evening I visited her, she was perfectly easy, the convulsive Twitchings, of which she at first complain'd, are quite remov'd.

her Wound was drefs'd again this morning, from which there appear'd a very proper Difscharge of Matter, not in the least tinged with Blood. The whole of the Agaric with the rest of the Dressings were remov'd without giving pain. Upon the Removal of the Agaric, I enquired narrowly, whether I could discover the Extremities of the Arteries, or their Pulsation, but there was not the least

appearance of either of them: From this time she continued to mend without the least Interruption, till she was dismiss'd the Hospital.

A short History of the Effects of the Agaric of the Oak in stopping of Bleedings, after some of the most capital Operations in Surgery; with an Account of the Manner of its acting upon the Vessels; communicated to the Royal Society.

IN December 1752, I had the Honour of communicating to the Royal Society, the good Effects of the Agaric of the Oak in the Case of a young Woman aged 24, whose Leg I had cut off below the Knee. Since that time, I have not heard of any farther Trials which have been made with it, or of any Accounts that have been given to the Society of its great Usefulness in Surgery. This may probably arise from the Virtues of the Agaric not being as yet much known in England, or from the unwillingness of Surgeons to adopt such a Method as they may probably suppose to be attended with hazard. The great Success which attended

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my first Experiment of this kind, was a fufficient Inducement to me, to make a farther Trial of it in other Cases of the like na-This I have lately done in four more Instances: all of which have been attended with Success, equal to the first. The particular Advantage of the Agaric is evidently this, that it has the power of effectually restraining the Bleeding without giving Pain; for which reason, there appears to be much less of the Symptomatic Fever, than what occurs after the use of the Needle and Ligature; which is, by much, the most painful Process of the Operation in Amputations, and is sometimes productive of Convulsions, as has been observ'd by Monsieur Le Dran in his Chapter of Amputations, under which Circumstances he particularly advises the cutting the Ligatures, &c. The Ligatures have fometimes the farther Inconvenience of remaining quite fix'd to the last, on which account they unavoidably retard the healing of the Wound. Interprete to their fact of prime

Besides the Effect of restraining the Hæmarrhage in all recent Wounds, which the Agaric has in common with the Ligature,

it has one great Advantage peculiar to itself, which is that of effectually restraining the Bleeding, in Wounds of feveral Days or Weeks standing, where the Parts are become fo rotten as to be incapable of bearing the Ligature. This I have known to have been the Effect of it in feveral Instances, where the Ligature has been attempted in vain. The Manner in which the Agaric acts, is by contracting, or pursing up the Extremities of the divided Veffels. I, had an Opportunity of enquiring into this Fact in a Patient whose Leg was cut off below the Knee. Immediately after the Amputation, pieces of Agaric were applied to, and properly fecur'd upon the Mouths of all the principal Vessels. In about an Hour after the Operation the Stump bled a-fresh, on which account I remov'd all the Dreffings, except those pieces of Agaric that were at first applied. This gave me an Opportunity of discovering the Source of the Hamorrhage, which was from a collateral Vessel at least an Inch distant from the principal ones. When I had fecur'd the Veffel, I had the Curiofity to remove the bits of Agaric from those L 2

those very parts to which they were at first applied. I observed the Mouths of the Vessels to be totally contracted in so short a space of Time, and to be capable of resisting the whole Force of the Circulation; the Extremities of the Vessels being alter'd from their natural shape of a Cylinder, to that of a Cone. After having said thus much in savour of the Agarie, I shall conclude with a Reference to the following Cases, as some Confirmation of what has been above advanced.

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# peration in the following manner.

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Ing afflicted with an Ulcer in his Leg, which at length became so general (occasioned by an Impoverishment of the whole Mass of Blood, and a constant slow Fever with which he had been for some time afflicted) as

to destroy the greatest part of the Tendons and Muscles, from the Calf of the Leg down to the Ancles. The Discharge from the Wound had been for some Weeks so excessive, as to reduce him to the greatest Extremity; and the whole Substances of the Tibia and Fibula appear'd quite rotten for a considerable length.

In confideration of the foregoing Symptoms, it was recommended to him to partwith the Limb (though at the same time the Success of the Operation was judged to be very precarious, on account of his great weakness, and bad habit of Body) which he readily affented to, and I perform'd the Operation in the following manner.

THE Patient being feated upon a Table of a convenient height, and properly fecur'd by Affistants, a Linen Compress about two Inches broad was applied round the Thigh a little above the Knee. Upon this, the Screw Tourniquet was fix'd, with a degree of tightness sufficient to prevent the course of the Blood through the Femoral Artery.

This being done, I applied a piece of Tape round the Leg, about five Inches below

the

I proceeded to divide the Integuments quite through, which were drawn back by an Africant, and afterwards divided the Muscles as near as possible to the Integuments quite to the Bone. Immediately after this, I introduced the Catline betwixt the Tibia and Fibula, with which I divided the inter offeous Ligament, &c. and then proceeded to saw, through the Bones.

Immediately after the Amputation, I look'd for the principal Vessels, and easily discover'd them without slackening the Tourniquet, (which I have seldom had occasion to do in Operations of this kind.) Upon the Mouths of these, I applied small bits of Agartic, about the fize of a Shilling, as well as upon the Mouths of the smaller Vessels, which discover'd themselves by their oozing. Upon the bits of Agaric, I applied soft Layers of Lint. All these were cover'd with a Pledget of Tow spread with yellow Basilicon, and properly secur'd on by the common Bandage.

ABOUT three or four Minutes after he was roll'd up, and put to bed, I discovered the Blood

Blood to Discharge freely through the Dreffings, upon which, I tightned the Tourniquet in expectation of stopping the Bleeding, but it appear'd evidently to encrease it.

SEEING this uncommon effect, I quite flackened the Tourniquet, upon which the Bleeding immediately ceas'd. This I was led to from a Supposition, that the Veins had probably suffer'd so great a Compression from the Instrument, as to be incapable of returning that Blood which was carried to the neighbouring Parts by the collateral Arteries, arising from the principal Trunk, above the Ligature. But whether this was the true Reason or not, I cannot take upon me to determine; however the Fact was, that the Bleeding immediately ceas'd, and did not return again.

THE Patient was dressed on the fourth Day after the Operation, and the whole of the Agaric was removed. Since then, he has been treated in the common Method without any farther use of the Agaric. The Patient has had very little Fever, or Pain since, and was well in health nine Weeks after the Operation, but the Wound was not then healed.

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#### C A S'E XLI. Shap bananing

Port with a round religible to the book and the

# Of an Amputation of a Breast.

#### CASE the 2d.

MAY 1754, E. H. a very lusty Woman, 38 Years of Age, had been afflicted for some time with a diseased Breast, which at length became cancerous. The Basis of the Breast was much larger than common, and was complicated with a considerable Schirrous Knot which extended to the Arm-pit.

As things were thus circumstanced, it was plain that nothing could be advised, but the Amputation of the Part; which she consented to after some Weeks deliberation, and I performed the Operation in the following manner.

The Patient being feated upon a long Stool of a convenient Height, and an Affistant behind her, who secured her by class-ing her round the Waste, I seated myself in a Chair opposite to her, and supporting the Breast

Breast with my lest Hand, I began with making a semicircular Incilion upon its superior Part with a round edged Knise, which was continued quite to the pectoral Muscle. After this, I discovered an adhesion of a Part of the Basis of the Breast to the pectoral Muscle, from whence I separated it; then I proceeded to divide the Integuments quite round on its inferior part, and sinished the Amputation by dissecting the inferior Part of the Breast from the lower Part of the pectoral Muscle, upon which it lay loose, and quite free from adhesion.

In the Operation, several Arteries of a confiderable size were divided, which were compressed by the Fingers of an Assistant, till the whole of the Breast was removed.

AFTER cutting off the Breast, I made a longitudinal Incision through the Integuments quite to the Extent of the Schirrous Tumour, which afforded me sufficient Room to dissect it out.

In removing the Tumour, I necessarily divided a considerably Artery which nourished it.

THE Wound was large, and bled freely from five or fix Arteries.

Brest F

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I MADE use of no other method to stop the Bleeding, than the Application of pieces of Agaric to the Mouths of the Veffels, which were properly fecured on by a Flanel Roller, after being first covered with common dry Lint, and a Pledgit of Tow foread with Digestive. The symptomatic Fever was very flight; the has been quite free from those painful Spaims, which conftantly arise from the use of the Needle and Ligature. There has not been the least loss of Blood fince the Operation. Her Wound was dreffed on the fourth Day, when the whole of the Agaric came away. Since then it has been treated in the common Method. She is very well, and her Wound was at the Point of being healed in nine Weeks after the Operation.



Method, I advited the Ampuration

CASE

### CONCRETED BURNEY

# relications CASE XLII.

Of an Amputation of a Leg.

CASE the 3d.

MAY 1754, G. W. aged 12 Years, was admitted into the Hospital with a Complaint in one of his Ancles and Feet, with which he had been afflicted for some time. The Disease was an Abscess in the Joint of his Ancle; and he had another Abscess on the upper Part of the same Foot, which had discharged, and continued to discharge so much, as to waste his whole Limb, to bring on an hectic Fever, and to render him incapable of putting his Foot to the Ground without giving excessive pain.

HE had very little Appetite, and the Ligaments of the Ancle and Foot, as well as the Bones were much enlarged, and become carious.

In confideration of these circumstances, and not being able to cure, or give him relief by any other Methods, I advised the Amputation

#### CASES in SURGERY.

of the Leg, which was complied with, and I performed it on the 13th of May 1754, in the Manner as before described, and in the usual Place below the Knee.

THE Agaric and Dreffings were applied as in the preceding Cases, which answered perfectly well in all respects.

THE Tourniquet was quite removed in ten Minutes after the Patient was put to Bed. He has had very little Fever, restlesness, or pain since the Operation.

His Wound was dreffed on the 5th Day after the Operation, and the whole of the Agaric was then removed.

THE Patient is very well in Health, and his Wound was very near being well in eight. Weeks after the Operation.

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CASE

### SALES TO THE PROPERTY OF THE PARTY OF THE PA

### adi ni has CASE XLIII. Banker all

Of an Amputation of a Leg.

CASE the 4th.

MAY 1754, R. B. aged 54, was admitted into the Hospital with a Mortification in his Foot, which, notwithstanding all the Means used in Physic and Surgery for his Relief, continued to advance till it extended to about two Inches above the Joint of the Ancle, where at length it stopped, after having destroyed the several Tendons, Ligaments, and Periosteum, which belong to the neighbouring Parts.

THE Patient was of a very bad habit of body, his Countenance was fallow, his Pulse quick, and languid. He was in a very weak State, and his whole Mass of Blood greatly impoverished. He at the same time had a Mortification in the other Foot, which deprived him of all his Toes.

WHEN the Mortification was separated, and his habit of Body improved by proper Medicines and Time, the Amputation of the Limb

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was

was advised, and he consented to it; which I performed in the usual Place below the Knee, on the 21st of May 1754, and in the same Manner as has been already described in the Case of J. L.

I MADE use of no other methods to stop the Bleeding than the Agaric, which was applied to the Mouths of the Vessels, as in the pre-

ceding Cases.

IMMEDIATELY after the Operation and Dreffings were finished, the Patient was removed to Bed, and the Tourniquet taken off.

HE has not had the least loss of Blood fince

the Operation,

THE Pain and Fever have been very inconfiderable.

It is now eight Weeks fince the Operation was performed; the Patient is alive, and his Wounds as near being well, as the Time, his Age, and bad Habit of Body can be supposed to admit of.

#### REMARK.

THE Case of J. L. has something singular in it, and particularly proves the extraordinary Esticacy, and Usefulness of the Agaric.

I HAVE already taken notice, how frequently it is impracticable to make a proper Use of the Needle and Ligature in Wounds of long standing; and farther know from Experience, that it is no uncommon thing to meet with the same Disappointments even in recent Wounds that are made upon diseased Parts. So that I think it may be reasonably questioned, whether I should not have met with the like difficulty in this Subject, had I attempted to secure the Vessels by Ligatures.

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# CASE XLIV. nist and

Of an Amputation of the Leg.

THIS Operation was performed fince the Communication of the four preceding Cases to the Royal Society.

July the 6th 1754, H. R. a young Man of 24 Years of Age, was admitted into the Hospital on the 25th of April, of this Year, on account of a Disease in his left Foot.

THE Part was much enlarged and inflamed.

He had a Fever, and there was a confiderable

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#### CASES in SURGERY.

Collection of Matter which pointed on the upper and outer part of the Foot, betwixt the Extremities of the Tibia and Fibula.

THE Tumour was opened by Caustic, and discharged about a Quart of very feetid Matter.

THERE was a fecond Abscess formed on the Inside of the Leg, under the Tendo Achillis, which was opened by Incision.

From the Account given me by the Patient, the Disorder had been about fixteen Months standing, and took its rise from a strained Ancle, which was immediately succeeded with considerable pain and swelling. But by Rest, and the Application of warm Vinegar to the part, these Symptoms were soon removed, and he continued easy and perfectly well for a few Weeks, when he had the Missortune to strain the same Ancle again.

FROM the Moment of the second Accident, he became lame, his Ancle and Foot swell'd, and his Disorder increased for two Months.

In this Situation, he put himself under the Care of an eminent Surgeon. The Tumour terminated in an Abscess, and was opened by Incision.

TAP has been been a common offer in the

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This Collection of Matter was fucceeded by feveral others, which were opened in the fame Manner.

THE Wounds were cured in about eighteen Weeks, and the Patient was restored to the perfect Use and Motion of his Foot.

HE continued quite well for fix Months, when on a sudden, the Foot became painful, and swelled again without any previous Accident, and soon afterwards one of the former Wounds broke out, from whence there arose a considerable Fungus.

In consequence of the Disease, the Leg was become wasted, he was incapable of putting his Foot to the Ground, he rested very little, his Appetite was bad, his Pulse quick and low; the whole Ancle and Foot were greatly enlarged.

From these Circumstances, and all Attempts to relieve him having failed, it was judged adviseable to Amputate the Limb; which I did this Morning in the usual Place below the Knee, and in the same Manner as has been already described.

When the Leg was cut off, bits of Agaric were placed upon the Mouths of the feveral Arteries, as in the preceding Cases, and the

fame kinds of Dreffings and Bandage applied over them; the Patient was immediately removed to Bed, and in a few Minutes after the Tourniquet was let quite loofe.

Upon flackening the Tourniquet, the Patient complained of a Convulsion in his Stump, which was succeeded by a Discharge of Blood through the Dressings from the Arteria Tibialis Antica.

Since this, I tightened the Tourniquet, upon which the Bleeding ceased. I kept the Tourniquet moderately tight for a Quarter of an Hour, and then loofened it again. The Patient upon its being loosened, complained of a Return of the Spafm in his Stump, and there presently ensued a second Discharge of Blood from the same Vessel. On this account, I tightened the Tourniquet again, and compressed the Femoral Artery; upon which the Bleeding immediately ceafed. I kept the Ligature moderately tight for about a Quarter of an Hour, and then loofened it till it had no degree of Pressure upon the Artery. From this time, the Bleeding stopped, and did not return again.

of Blood which was lost in consequence of the Ope-

Operation did not amount to eight Ounces; and of this I am very certain, because I had placed a Bason under the Stump for the Reception of the Blood, which amounted to about three Ounces; and allowing there was the same Quantity, or a little more, absorbed by the Dressings and Rollers, the whole could not amount to more than I have supposed; which Evacuation, after an Operation of this kind, is more likely to be serviceable, than injurious to the Patient, when he has not been much reduced by the Disease.

HE rested very well the Night after the Operation, he had scarcely any symptomatic Fever, and the next Morning was perfectly easy.

From this time he continued to go on very well, without the least interruption, or return of the Bleeding.

HE was dreffed on the 4th Day, when the whole of the Agaric was removed, and only the common Digestive applied to the Wound; I examin'd whether I could Discover the Extremities of the Vessels, or any Pulsation in the Wound, but could not.

H E was dressed again on the 6th Day; he remains very well, has had hardly any Fever

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or Uneafiness, and his Wound is in a perfect good State.

On the 7th and 8th Days he was very well, his Wound continued from this time to go well on till his Cure, which was compleated Il a to cated O asso of in eleven Weeks.

#### supplied her material arts ( ) REMARK.

Upon examining into the Condition of the Foot, after it was amputated, a great part of the Capfular Ligament of the Ancle Joint appeared to be destroyed. The superior Part of the Astragalus, and inferior part of the Tibia were deprived of their Cartilages. The Integuments and neighbouring Tendons were greatly thickened, and adhered inseparably to each other. The Membrana Adipofa had the Appearance of a Cartilage. The Tarfal, and Metatarfal Bones were much enlarged.

N. B. THE Reason of my discontinuing the use of the Agaric from December 1752, to May 1754, was owing to my not being able to procure fuch as I believed might be depended upon. But fince I have had it in my power to procure the genuine Species of Agaric, I have always used it; and have never as yet

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met with one Instance of its failure; nor have I ever been under a necessity of applying it a second time after any Operation whatsoever, except that Instance which has been taken notice of in the Introduction to these Cases.

Besides the particular Operations of which I have already given an Account, I could treat of feveral others, wherein I have applied the Agaric with equal Benefit: But I look upon it as unnecessary to give a Detail of its Effects upon Vessels of less consequence than those I have already spoken of: concluding it must necessarily be allowed, that whatever Styptic is powerful enough to suppress an Hamorrhage from the larger Vessels, must, cateris paribus, be fufficiently powerful to suppress an Hamorrhage from the smaller, provided it can be applied and retained upon the Mouths of the divided Veffels with equal Advantage; and it is probable that the Application of the Agaric will prove not only of great use after most Operations where the Needle and Ligature may be advantageously used, but particularly fo in stopping the Bleeding from those Vessels which are divided in the lateral Operation for the Stone, as well as the Bleeding from any other wounded Vessels, which, from their deep Artery.

deep Situation cannot be secured with the Needle and Ligatures.



#### POSTSCRIPT.

ROM the uninterrupted Success which I had met with in the feveral preceding Operations, I was encourag'd to try the Effects of the Agaric in a Veffel of a much larger Size than any I had hitherto attempted: Having occasion therefore, about three Weeks ago, to cut off the Leg of a young Man aged 20, on account of a carious Tibia, and Luxation of the Knee, which Difease had been about 14 Months standing; I applied to the Femoral Artery, and to its collateral Branches, forme of the same kind of Agaric which I had before used in the preceding Amputations, and in the fame Manner, as is there described. After having roll'd up the Stump, and put the Patient to bed, I continued the Tourniquet and Ligature upon the Thigh for about 8 or 10 Minutes, as tight as was necessary to restrain the Flux of Blood; at the end of which time. I gradually loofened it, until it had a very small degree of Pressure upon the Femoral Artery.

Artery. After it had been let loofe about two Minutes, I perceiv'd the Stump to bleed; this gave occasion to my tightening the Ligature. which I kept fo for about 10 or 12 Minutes, and then gradually flackened it again; upon which the Wound bled afresh. Seeing this, I repeated the Stricture of the Ligature; in which state I kept it for about half an Hour. and then gradually flackened it again. Upon flackening the Ligature, I perceiv'd the Stump to bleed very freely: on which account I tightened the Ligatute again, and effectually restrained the Hamorrhage. After these several trials. I confidered the Agaric as incapable of having the defired Effect, upon to large a Veffel; and being determined not to rique the Life of the Patient, I immediately took off the Roller and Dreffings, and fecured the Femoral Artery with the crooked Needle and Ligature: after which, there was no Return of the Hamorrhage, and the Patient is now in a fair way of Recovery. I add bountines I had at their

This is the only Instance in which I have tried the Effects of the Agaric in the divided Femoral Artery; if upon a second Experiment of the same kind, it should be found equally unsuccessful, I shall then be induced to

Artery

confider this Application as useful only in Amputations of the Leg below the Knee, and in Amputations of the Arm below the Elbow, as well as in all other Operations where Veffels of a smaller Size are divided: As yet, I have had no opportunity of trying the Agaric to the divided humeral Artery; though I have been very well inform'd by a Surgeon who spent fome time in Paris, that he faw an Instance of a divided humeral Artery where the Agaric was applied with Success, and the Patient recovered without any future Hamorrhage: which piece of History will be a fufficient Inducement to me to make trial of it in the like Case when an opportunity shall offer; and especially as these Experiments may be always made without the Patient's running any Rifque. or incurring any increas'd degree of Pain.

I HAVE been credibly inform'd that the use of the Agaric is now become so general in Paris, that the Needle and Ligature are

almost totally discarded.

